AHS 1101 Orientation to Health Careers
1 credit(s); Credit will not be granted if credit has been received for: AHS 1102;
Instructor: Simpson, Scott W
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
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 Orientation to Health Careers
1 credit(s); Credit will not be granted if credit has been received for: AHS 1101;
Instructor: Simpson, Scott W
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 1602 Experiences in Health
1 credit(s); prereq 1601, instructor consent;
Instructor: Todd, Tricia
Description: Student may contact the instructor or department

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

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: Lafave, Steven John
Description: Student may contact the instructor or department for information.

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: Shields, Timothy W
Description: Student may contact the instructor or department for information.

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: Dickhaut, John Wilson
Description: Student may contact the instructor or department for information.

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

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

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: Forrester PhD, Clayton L
Description: Student may contact the instructor or department for information.

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

ACCT 2050H Honors: Introduction to Financial Reporting
A-F only, 4 credit(s);
Instructor: White, Paul Andrew
Description: Student may contact the instructor or department for information.
for information.

ACCT 3001 Introduction to Management Accounting
A-F only, 3 credit(s); prereq 2050;
Instructor: Tranter, Terry L
Description: Student may contact the instructor or department for information.

ACCT 3001 Introduction to Management Accounting
A-F only, 3 credit(s); prereq 2050;
Instructor: Kirsch, Carrie Lynn
Description: Student may contact the instructor or department for information.

ACCT 3001 Introduction to Management Accounting
A-F only, 3 credit(s); prereq 2050;
Instructor: Blondich, Nick E
Description: Student may contact the instructor or department for information.

ACCT 3001 Introduction to Management Accounting
A-F only, 3 credit(s); prereq 2050;
Instructor: Shields, Timothy W
Description: Student may contact the instructor or department for information.

ACCT 3001 Introduction to Management Accounting
A-F only, 3 credit(s); prereq 2050;
Instructor: White, Paul Andrew
Description: Student may contact the instructor or department for information.

ACCT 3001 Introduction to Management Accounting
A-F only, 3 credit(s); prereq 2050;
Instructor: Gray, Jack
Description: Student may contact the instructor or department for information.

ACCT 3001 Introduction to Management Accounting
A-F only, 3 credit(s); prereq 2050;
Instructor: Martens, Scott L
Description: Student may contact the instructor or department for information.

ACCT 3199 Internship in Public Accounting
S-N only, 2 credit(s); prereq 5125, instr consent;
Instructor: Blondich, Nick E
Description: Students interested in earning academic credit for work involving an accounting internship should contact Nick Blondich at 612-624-7055.

ACCT 3201 Intermediate Management Accounting
A-F only, 2 credit(s); prereq 3001, acct or finance major;
Instructor: White, Paul Andrew
Description: Student may contact the instructor or department for information.

ACCT 3299 Internship in Management Accounting
S-N only, 2 credit(s); prereq Acct 3201, instr consent;
Instructor: Blondich, Nick E
Description: Students interested in earning academic credit for work involving an accounting internship should contact Nick Blondich at 612-624-7055.

ACCT 5100 Corporate Financial Reporting
A-F only, 4 credit(s); prereq mgmt student, non-accounting major;
Instructor: Edwards, Marianne
Description: Student may contact the instructor or department for information.

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: Blondich, 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 cashflow statements and earnings per share calculations. Students need a thorough background in financial accounting and present value calculations to do well in Acct 5102.
Style: 100% Lecture.
Grading: 47% mid exam, 25% final exam, 19% reports/papers, 9% other evaluation.
Exam Format: Open-ended questions 85+%; essays 10-15%; 4-6 questions per exam; exams are long and run the full class period

ACCT 5102 Intermediate Accounting II
A-F only, 4 credit(s); prereq 5101[ mgmt or grad mgmt student];
Instructor: Rayburn, Judy Ann
Description: Student may contact the instructor or department for information.

ACCT 5125 Auditing Principles and Procedures
A-F only, 4 credit(s); prereq [3101 or 5101 or 5100 or 6100], [acct major or grad mgmt student];
Instructor: Batina, Tom
Description: Student may contact the instructor or department for information.

ACCT 5135 Fundamentals of Federal Income Tax
A-F only, 4 credit(s); prereq [2050 or MBA 6030], [mgmt or grad mgmt student];
Instructor: Guterman, Paul Gerard
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: 80% Lecture. 15% Discussion. Problems
Grading: 53% mid exam, 30% final exam, 17% special projects.
Exam Format: multiple choice, short essay

ACCT 5160 Financial Statement Analysis
A-F only, 2 credit(s); prereq [5100/6100 or 3101/5101], [accounting or finance major];
Instructor: Beil, Frank J
Description: Student may contact the instructor or department for information.

ACCT 5180 Consolidations and Advanced Reporting
A-F only, 2 credit(s); prereq [5102, mgmt or grad mgmt student];
Instructor: Blondich, Nick E
Description: Student may contact the instructor or department for information.

ACCT 5236 Introduction to Taxation of Business
A-F only, 2 credit(s); prereq 5135, acct major;
ACCT 5320 Current Topics in Accounting: Foreign National Tax Consulting
S-N only, 2 credit(s);
Instructor: Carter,Gary Wm
Description: Student may contact the instructor or department for information.

ACCT 6100 Financial Statement Analysis
A-F only, 4 credit(s); prereq MBA 6030, MBA student;
Instructor: Caliendo,Charles Michael
Description:

ACCT 6100 Financial Statement Analysis
A-F only, 4 credit(s); prereq MBA 6030, MBA student;
Instructor: Beil,Frank J
Description: Student may contact the instructor or department for information.

ACCT 6160 Accounting for Mergers and Acquisitions, and Derivatives
A-F only, 2 credit(s); prereq MBA 6030, MBA student;
Instructor: Beil,Frank J
Description: Student may contact the instructor or department for information.

ACCT 6320 Current Topics in Accounting
A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed; prereq MBA 6130, MBA student;
Instructor: Biondich,Nick E
Description: Student may contact the instructor or department for information.

ACCT 6320 Current Topics in Accounting
A-F only, 3 credit(s), max credits 4, 1 repeat allowed; prereq MBA 6130, MBA student;
Instructor: Beil,Frank J
Description: Student may contact the instructor or department for information.

ACCT 8002 Securities and Exchange Commission (SEC) and Standard Setting
A-F only, 4 credit(s); prereq MAcc grad major;
Instructor: Kallio,Larry
Description: Student may contact the instructor or department for information.

ACCT 8006 Advanced Audit
A-F only, 4 credit(s); prereq MAcc student;
Instructor: Beil,Frank J
Description: Student may contact the instructor or department for information.

ACCT 8007 International Accounting
A-F only, 2 credit(s); prereq MAcc student;
Instructor: Rayburn,Judy Ann
Description: Student may contact the instructor or department for information.

ACCT 8811 Information Economics I

Adult Education
425 VoTech

ADED 3001 Adult Education Overview
A-F only, 1 credit(s);
Instructor: Conroy,Anne
Description: Student may contact the instructor or department for information.

ADED 3101 Introduction to Strategies for Teaching Adults
A-F only, 3 credit(s);
Instructor: Hanes Goodlander,Lisa Ann
Description: Student may contact the instructor or department for information.

ADED 5101 Strategies for Teaching Adults
A-F only, 3 credit(s);
Instructor: Park,Rosemarie J
Description: Student may contact the instructor or department for information.

ADED 5103 Designing the Adult Education Program
A-F only, 3 credit(s);
Instructor: Twohig,Catherine Carol
Description: Student may contact the instructor or department for information.

ADED 5196 Field Experience in Adult Education
S-N only, 3-6 credit(s), max credits 6, 1 repeat allowed;
Instructor: Twohig,Catherine Carol
Description: Student may contact the instructor or department for information.

ADED 5211 Introduction to the Undereducated Adult
A-F only, 1 credit(s); prereq credit will not be granted if credit received for: ADED 5202;
Instructor: Digby,Cynthia LB
Description: Student may contact the instructor or department for information.

ADED 5224 Formal Assessment of Adult Literacy
A-F only, 1 credit(s); prereq 5211 credit will not be granted if credit received for: ADED 5202;
Instructor: Schlukebier,Jennifer Ann
Description: Student may contact the instructor or department for information.

ADED 5225 Informal Assessment of Adult Literacy
A-F only, 1 credit(s); prereq 5211 credit will not be granted if credit received for: ADED 5202;
Instructor: Conroy,Anne
Description: Student may contact the instructor or department for information.

ADED 5226 Advanced Assessment of Adult Literacy
A-F only, 1 credit(s); prereq 5211, 5224, 5225 credit will not be granted if credit received for: ADED 5202;
Instructor: Woldeab,Daniel
Description: Student may contact the instructor or department for information.

Aerospace Engineering and Mechanics
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: Mason, Darren Edward  
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  

Aerospace Studies  
3 Armory

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

AIR 1105 Introduction to the Air Force Today II  
A-F only, 1 credit(s);  
Instructor: Polsgrove, Kelly Lynn  
Description: Student may contact the instructor or department for information.

AIR 1204 History of Airpower and Communication Skills  
A-F only, 1 credit(s);  
Instructor: Marsh, Patrick R  
Description: Student may contact the instructor or department for information.

AIR 1205 Quality Air Force, Group Leadership Problems, and Presentation Techniques  
A-F only, 1 credit(s);  
Instructor: Polsgrove, Kelly Lynn  
Description: Student may contact the instructor or department for information.

AIR 3002 Air Force Officership, Quality, and Communication  
A-F only, 3 credit(s); prereq 3301 recommended;  
Instructor: Marsh, Patrick R  
Description: Student may contact the instructor or department for information.

AIR 3402 Preparation for Active Duty  
A-F only, 3 credit(s);  
Instructor: Ballinger, Douglas A  
Description: Student may contact the instructor or department for information.

Afro-American Studies  
808 Social Sciences Tower

AFRO 1902 Freshman Seminar: Black TV Comics  
3 credit(s); prereq Fr; Meets CLE req of Cultural Diversity Theme;  
Instructor: Jacobs, Walt  
Description: In this seminar students will learn to identify and decode racial critiques of American society found in TV shows featuring African American comics. From the overt commentary offered in sketch comedy shows such as Chappelle's Show and In Living Color, to the more subtle discourse of a situation comedy like The Cosby Show, African American comics have a long history of using television as a stage to address the continuing significance of race in the United States. We will explore both historical and contemporary uses of humor to explain and reorganize our understandings of American racial dynamics. Using a variety of cultural studies methods and online technologies (including blogs, podcasts, and Moodle), students will develop critical media literacy—the ability to be rigorously analytical about the information and understandings we draw from the mass media—without diminishing the pleasure gained. For the seminar's final project, students will create, perform, and analyze comedic skits.  
Style: 20% Lecture, 25% Film/Video, 25% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Web Based.  
Grading: 55% reports/papers, 25% reflection paper, 20% other evaluation.
human rights discourse and practice. Then we will turn to the question of how human rights are connected to political, civil, and economic rights in Islamic societies in Africa. Through an examination of African case studies we will investigate the usefulness of the existing human rights paradigms within cross-cultural contexts. Our goal in studying political trends and currents in Islamic political thought is to understand the meaning and relevance of international human rights in dealing with major issues of peace and conflict throughout Islamized Africa. We shall therefore explore the issues of rights of women and children, torture, political repression, war crimes, and genocide.

AFRO 3205 History of South Africa from 1910
3 credit(s); Credit will not be granted if credit has been received for: HIST 3435; Meets CLE req of Historical Perspective Core;
Instructor: Atkin, Koletsos E
Description: Afro 3205 is the second half of a two sequence course on the history of South Africa from unification in 1910 to the final phase and collapse of the apartheid government. A major theme will be the development of African, Indian, Coloured and White political associations. We will examine post world war I political developments including the legal foundations of segregation; African trade union activities and unrest; African women and urbanization; African and Afrikaner nationalism after World War II; the legal frameworks of apartheid; the Soweto explosion; and towards a new South Africa. Target audience: undergraduates.
Style: 65% Lecture; 20% Discussion; 15%-20% Several videos on S. Africa.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% class participation. Term paper of roughly 15-20 pages.
Exam Format: Essay.

AFRO 3205 History of South Africa from 1910
3 credit(s); Credit will not be granted if credit has been received for: HIST 3435; Meets CLE req of Historical Perspective Core;
Instructor: Nimtz Jr, August H
Description: Afro 3205 is the second half of a two sequence course on the history of South Africa from unification in 1910 to the final phase and collapse of the apartheid government. A major theme will be the development of African, Indian, Coloured and White political associations. We will examine post world war I political developments including the legal foundations of segregation; African trade union activities and unrest; African women and urbanization; African and Afrikaner nationalism after World War II; the legal frameworks of apartheid; the Soweto explosion; and towards a new South Africa. Target audience: undergraduates.
Style: 65% Lecture; 20% Discussion; 15%-20% Several videos on S. Africa.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% class participation. Term paper of roughly 15-20 pages.
Exam Format: Essay.

AFRO 3432 Modern Africa in a Changing World
4 credit(s); Credit will not be granted if credit has been received for: HIST 3432; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Mandala, Elias Coutinho
Description: This course uses film, literature, and historical studies to understand the transformation of African societies during the colonial era and its neocolonial aftermath. It maps out the forging of new national identities, creation of wage laborers, restructuring of rural communities, and changing power relations between women and men, the young and old. Students will also explore how African men and women, from their homes and workplaces, and as part of nationalist and national liberation movements during and after the Cold War, have sought to redefine their place in the global economy amidst new opportunities and challenges presented by environmental degradation, the HIV/AIDS pandemic, hunger, international debt, and China’s grand thrust for the continent’s seemingly inexhaustible natural resources.

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 3594W Introduction to Contemporary Black Writers
A-F only, 3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Fletcher, Pamela R
Description: In this literature and writing intensive course, “Fire Next Time: Black Men’s Voices of Dissent,” students will read, discuss, and write about the works of James Baldwin, Charles Barkley, Derrick Bell, Dr. MLK, Jr., Nathan McCall, and El-Haj Malik El-Shabazz (aka Malcolm X). By using language as weapons, these men pose difficult questions, challenge the status quo, and seek to build a just society. This course will place heavy emphasis on student participation, so students are expected to attend class weekly and to engage in active class discussion regarding films and assigned readings. The paper assignments include six short papers (3-5) papers regarding the texts and revisions.
Style: 20% Lecture; 80% Discussion. in-class activities
Grading: 70% reports/papers, 30% class participation.

AFRO 3594W Introduction to Contemporary Black Writers
A-F only, 3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Mamdani, Sumaiya
Description: In this literature and writing intensive course, “Fire Next Time: Black Men’s Voices of Dissent,” students will read, discuss, and write about the works of James Baldwin, Charles Barkley, Derrick Bell, Dr. MLK, Jr., Nathan McCall, and El-Haj Malik El-Shabazz (aka Malcolm X). By using language as weapons, these men pose difficult questions, challenge the status quo, and seek to build a just society. This course will place heavy emphasis on student participation, so students are expected to attend class weekly and to engage in active class discussion regarding films and assigned readings. The paper assignments include six short papers (3-5) papers regarding the texts and revisions.
Style: 20% Lecture; 80% Discussion. in-class activities
Grading: 70% reports/papers, 30% class participation.

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: Ratan, Alex S.
Description: Afro/Engl 3598W, Introduction to African American Literature and Culture II is designed to provide students with an introduction to the literature and culture of African-American Americans. This course will explore the works of African-American writers from the 19th century to the present day. Students will read and discuss a variety of texts, including novels, short stories, poems, and essays. The course will also include film screenings and class discussions. Students will be expected to engage actively in class discussions and to complete written assignments, including essays and short quizzes. The course will also include participation in in-class activities and a final exam. The course will meet 3 times a week, with a total of 4 credits. This course is designed for students who have completed Afro/Engl 3598W, Introduction to African American Literature and Culture I, or have equivalent coursework.
Style: 20% Lecture; 20% Film/Video, 50% Discussion.
Grading: 70% reports/papers, 30% class participation.

AFRO 3634 Blues & Rhythm and Blues
3 credit(s);
Instructor: Williams, YoYola Y
Description: Student may contact the instructor or department for information.

AFRO 3654 African Cinema
3 credit(s);
Instructor: Ben-David, Yael
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 3865 African American History: 1865 to the Present
credit(s); Credit will not be granted if credit has been received for: HIST 3865.
Instructor: Mathieu, Saje
Description: This course explores African American history from Emancipation to the present. It analyzes the social, political, legal, and cultural dimensions of the African American experience in the United States throughout critical historical moments such as Reconstruction, industrialization, segregation, suffrage, the Great Migrations, World War One, the Great Depression, the New Deal, World War II, the Civil Rights Movement, the black power movement, and contemporary racial politics. In addition to historical texts, students will work closely with various primary sources produced by African Americans, including speeches, newspapers, memoirs, photographs, art, and film.
Style: 70% Lecture, 15% Film/Video, 15% Discussion.
Grading: 25% mid exam, 25% final exam, 30% reports/papers, 20% class participation.
AFRO 3910 Topics in African American and African Studies: Black Internationalism
credit(s), max credits 9, 3 repeats allowed;
Instructor: Onishi, Yuichiro
Description: This course introduces the concept of Black internationalism as political vision and theory to unpack the dynamics of the Black Freedom Movement in the twentieth century. In part, our approach to the study of Black internationalism is historical. That is to say, an emphasis is on exploring how Black intellectual-activists responded to such world historic developments as European colonialism in Africa, the Americas, and Asia, U.S. imperial ascent and expansion, two World Wars and the Cold War, and African independence movements to shape the politics of the African diaspora locally and transnationally. Furthermore, equally important to the task of rendering visible the contours of Black internationalism is the close reading of both classics and most recent humanities literature. Conceived as a reading-intensive seminar, the aim of this course is to critically assess how interdisciplinary scholars frame the study of race and nation, especially as it relates to a critique of colonialism and imperialism, to engender new analytic, theoretical, and political possibilities. To this end, thus, one of the course requirements is that each student leads and facilitates a class discussion twice during the semester in pairs. Students who are interested in the international study of African American history, Black radicalism, and social movements are encouraged to take this course.
Style: 30% Lecture, 70% Discussion.
Grading: 70% reports/papers, 20% in-class presentation, 10% class participation.
AFRO 3920 Topics in African American and African Studies: Hist Background to War & Genocide in Rwanda, et al
credit(s), max credits 6;
Instructor: Wagner, Michele (none)
Description: The 1994 Rwandan genocide shocked the world: in the course of 100 days some 800,000 persons were brutally murdered and more than two million people fled their homes as refugees. This enormous and complex catastrophe shocked Rwandans as well because it occurred despite the in-country presence of United Nations peacekeepers and thousands of international diplomats and aid workers, many of whom were there specifically to establish peace, confidence and security.
How did the genocide happen? What occurred in Rwanda's past to lead to this tragedy? Why has this tragedy continued to unfold -- without international attention, outcry or even understanding -- in Rwanda, as well as in the neighboring countries, especially Congo?
Style: 25% Lecture, 25% Film/Video, 25% Discussion, 10% Small Group Activities, 5% Student Presentation, 10% Guest Speakers.
Grading: 15% mid exam, 20% reports/papers, 20% special projects, 15% attendance, 30% reflection paper.
AFRO 3920 Topics in African American and African Studies: Black Europe: The African Diaspora in Europe
credit(s), max credits 6;
Instructor: Keaton, Tricia Danielle
Description: Who are the Blacks of Europe? Are people of the African diaspora the only ones identified as “black” in European societies? What semantic terrain does the term “diaspora” inhabit in this context? And, how do the experiences of racialized groups compare across European and U.S. nation-space? This seminar explores these and other critical questions related to the presence and impact of the African diaspora in Austria, Britain, France, Germany, the Netherlands, and Scandinavia to further our understanding of the connection between ideas of “race” and belonging in these sites. For well over the past decade, there has been a great deal of discussion among European Union members about the spread of racialized exclusion in Europe, as eyes turn toward and away from the United States for both models and anti-models to address these dilemmas. An official discourse of color-blindness is, however, well anchored in certain societies, which, as the Afro-Dutch scholar Philomena Essed documents, relies on the assertion that “we do not have the word ‘race’ in our language, therefore, there is no racism.” Drawing, then, from fascinating readings, films, and invited guests from Europe and the U.S., we will dissect a variety of intriguing issues, as we journey through several European countries, including those reflective of immigration patterns to Minnesota, that is, European countries whose black populations are increasingly making their presence known.
AFRO 4231 The Color of Public Policy: African Americans, American Indians, and Chicanos in the United States
credit(s); Credit will not be granted if credit has been received for: AMIN 4231;
Instructor: Brewer, Rose Marie
Description: This course is designed to familiarize students with the history of U.S. public policy development and social relations across racial-ethnic-nation cultures. The focus will be on the United States, but recent developments from the global context will be incorporated for comparative purposes. In this course we will examine the structural and institutional conditions through which people of color have been systematically marginalized, and how diverse populations have fought for and won or lost policy change. The course will help students better understand and interpret the “dominant paradigm” in which public policy has been set. Then, we will examine how and why this paradigm has shifted over time, and what the current prospects are for policy transformation in the domestic and global arenas.
Style: 20% Lecture, 40% Discussion, community research.
Grading: 25% final exam, 30% reports/papers, 20% class participation, 30% other evaluation, community research.
Exam Format: take-home.
AFRO 5181 Blacks in American Theatre
credit(s); Credit will not be granted if credit has been received for: TH 5181;
Instructor: Bellamy, Louis Richard
Description: Student may contact the instructor or department for information.
AFRO 5191 Seminar: The African American Experience in South Africa
credit(s); Credit will not be granted if credit has been received for: HIST 5438;
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

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

AFEE 1002 Principles of Career Planning for Agricultural Professionals
1 credit(s); Credit will not be granted if credit has been received for: AGUM 1111;
Instructor: Bachmeier,Theresa
Description: Student may contact the instructor or department for information.

AFEE 2096 Professional Practicum in Agricultural Education: Early Experience
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Westrom,Lyle Emil
Description: Student may contact the instructor or department for information.

AFEE 3221 Presentations and Meeting Management for Agricultural Industry
A-F only, 3 credit(s);
Instructor: Peterson,Roland L
Description: Student may contact the instructor or department for information.
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: Porter, Paul M
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 cr in [biol or plant science];
Instructor: Brakke, Mary Patricia
Description: Student may contact the instructor or department for information.

AGRO 4093 Directed Studies for Advanced Students
1-4 credit(s), max credits 12, 12 repeats allowed; prereq 15 cr in agronomy, instr consent;
Instructor: Porter, Paul M
Description: Student may contact the instructor or department for information.

AGRO 4093 Directed Studies for Advanced Students
1-4 credit(s), max credits 12, 12 repeats allowed; prereq 15 cr in agronomy, instr consent;
Instructor: Jordan, Nicholas Royal
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
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: Porter, Paul M
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: Student may contact the instructor or department for information.

AGRO 4505 Biology, Ecology, and Management of Invasive Plants
3 credit(s); prereq 4005, [Bio 3002 or equiv], Soil 2125, [Agro 2501 or Hort 1011];
Instructor: Wyse, Donald L
Description: Student may contact the instructor or department for information.

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: Ehke, 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, 1009, HORT 1001] or instr consent ; Credit will not be granted if credit has been received for: AGRO 3131;
Instructor: Porter, Paul M
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 8202 Plant Breeding Principles II
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: Shoemaker, Scott M
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 plant sci or agro or ent or hort or plant brdg or plant path or soil or instr consent; Credit will not be granted if credit has been received for: HORT 8270;
Instructor: Tong, Cindy Bow San
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 plant brdg or plant path or soil or instr consent;
Instructor: Thill, Christian A
Description: Student may contact the instructor or department for information.

American Indian Studies
19 Scott Hall

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: Shoemaker, Scott M
Description: Student may contact the instructor or department for information.

AMIN 3107 Structure of Anishinaabemowin, the Ojibwe Language
A-F only, 3 credit(s); prereq 3103; Credit will not be granted if credit has been received for: AMIN 5107;
Instructor: Nichols, John David
Description: Analysis of grammatical structures of Anishinaabemowin.

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 people. 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 in 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 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: Bauer, Joseph Karl
Description: Student may contact the instructor or department for information.

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 3872 American Indian History: 1830 to the Present
3 credit(s); Credit will not be granted if credit has been received for: HIST 3872; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Redix, Erik M
Description: Student may contact the instructor or department for information.

AMIN 4231 The Color of Public Policy: African Americans, American Indians, and Chicanos in the United States
3 credit(s); Credit will not be granted if credit has been received for: AFRO 4231;
Instructor: Brewer, Rose Marie
Description: This course is designed to familiarize students with the history of U.S. public policy development and social relations across racial-ethnic-nation cultures. The focus will be on the United States, but recent developments from the global context will be incorporated for comparative purposes. In this course we will examine the structural and institutional conditions through which people of color have been systematically marginalized, and how diverse populations have fought for and won or lost policy change. The course will help students better understand and interpret the “dominant paradigm” in which public policy has been set. Then, we will examine how and why this paradigm has shifted over time, and what the current prospects are for policy transformation in the domestic and global arenas.
Style: 20% lecture, 40% discussion, community research.
Grading: 20% final exam, 30% reports/papers, 20% class participation, 30% other evaluation, community research.
Exam Format: take-home.

AMIN 4990 Topics in American Indian Studies: Tribal Nations of the Plains and Prairies
3-4 credit(s), max credits 8;
Instructor: Albers, Patricia
Description: This course focuses on the histories and cultural traditions of the indigenous nations who inhabited and/or utilized the plains and prairie regions of the United States and Canada from 1570 to the present. It considers the complex and changing relations of these tribal nations to their environments, to their neighbors, and to the growing numbers of foreigners in their midst. It looks at some of the different and sometimes conflicting ways that scholars in American Indian Studies, anthropology, and history have come to understand the ways that the Native peoples of these regions experienced their lives over time and space.

AMIN 4990 Topics in American Indian Studies: Senior Projects
in American Indian Studies
1-4 credit(s), max credits 8;
Instructor: Albers, Patricia
Description: Student may contact the instructor or department for information.
AMST 1002 American Popular Arts and Public Life, 1940 to present
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core;
Instructor: Butler, Pamela W
Description: Popular culture is often criticized as being trivial, manipulative, vulgar, or mind-numbing. In this course, however, we take popular culture seriously as a site for political analysis, a site where dominant ideas about race, class, gender, sexuality, and citizenship are defined, disseminated, and sometimes critiqued. Using diverse media (including film, television, music, literature, and the internet), we?ll examine the ways in which popular culture is a place where dominant ideologies have been defined and reinforced in the years since World War II. We will also explore, however, the ways in which popular cultural forms have been used by individuals and communities to gain agency or resist certain forms of oppression. This course will focus in particular on social movements, and on the operations of race, class, gender, sexuality, and citizenship in the U.S. since the mid 20th century. Throughout the semester, students will develop the tools to read popular cultural productions as texts, and as artifacts that can tell us something about the political and social contexts in which they were created.
Style: 30% Lecture, 20% Film/Video, 50% Discussion.
Grading: 35% mid exam, 35% final exam, 20% reports/papers, 10% class participation.

AMST 1905 Freshman Seminar: Boomtowns & Borderlands: Life on US-Mexico Border
3 credit(s);
Instructor: Castellanos, Bianet
Description: Why have over 2,000 people died crossing the U.S.-Mexico border in the past decade? Why have Americans spent over $20 billion dollars to patrol this border, but only half this amount to patrol the U.S.-Canadian border? This course is an introduction to the contemporary issues and problems of the U.S.-Mexico border region. We will learn about the lives of the people who reside on both sides of this thousand mile fence. Important questions we consider include: How are borders produced historically, politically, and geographically? How do they change over time? What is the impact of globalization on the border? We will pay attention to the following issues: the growth of the border patrol; the disappearance and murder of women in the Mexican border town of Juarez; the struggles for environmental and social justice in border boomtowns; and the emergence of free trade agreements like NAFTA. Additionally, through a study of music, art, and film, we will learn about the new forms of artistic and cultural expression that result from the mixing of U.S. and Mexican cultures.
Style: 34% Lecture, 33% Discussion, 33% Small Group Activities.
Grading: 30% final exam, 30% reports/papers, 20% class participation, 20% other evaluation. Collaborative Class Presentation
Exam Format: Final Paper 8 - 10 pages

AMST 3001 Contemporary Perspectives on Asian America
3 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Fajardo, Kate Bartlize
Description: Where are Asian Americans located locally, regionally, nationally, and globally? Does geographic location make a difference in how Asian Americans understand and experience their identities and communities? How do different places and the political climate in these places (for example, Asia, U.S. west coast, U.S. Midwest, New York, Hawaii, Caribbean) affect Asian/Asian American experiences, identities and communities? This course focuses on different sites in Asian America to better understand the complexity, beauty, and problems of Asian America. Key questions for the course include: How do Asians/Asian Americans in diverse geographic locations experience, historicize, politicize, visualize, and/or imagine themselves and their communities in the context of the U.S., Asia, U.S. and beyond? Who, what, where, when, and how is Asian America? What are the cultural politics of space, place, and movement in Asian America? How do these issues play out in Minnesota/Twin Cities? Participants in this course will seriously explore and engage these questions and themes by reading theory, literature, film, and art and working on a group research project about an Asian American space, place, or movement in the Twin Cities.
Style: 30% Lecture, 30% Film/Video, 40% Discussion.
Grading: 40% reports/papers, 40% class participation, 20% other evaluation. Final Project

AMST 3113W America's Diverse Cultures
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Currie, Scott
Description: Sound, Community, and Identity: What do we hear when we listen to the sounds of a nation confronting and celebrating its own ever-increasing diversity? What can music, and the arts tell us about how communities construct, project, and even empower themselves through performance? In this class, we will combine a focus on the roles music and associated expressive cultural practices play in everyday life, with an appreciation of the particular socio-historical legacies of conquest, slavery, and immigration, in order to explore the ways in which ethnic identities are imagined, embodied, produced, and consumed. In addition to characteristic cultural performances of nationally prominent European-, African-, Asian-, and Latin-American ethnic groups, we will also consider those of local communities (e.g. Hmong, Somali, Liberian, Native American, et al.) in the Twin Cities metropolitan area.
Style: 50% Lecture, 25% Film/Video, 25% Discussion.
Grading: 15% mid exam, 15% final exam, 45% reports/papers, 15% journal, 10% class participation.
Exam Format: short answer/multiple choice

AMST 3114 America in International Perspective
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspective Theme;
Instructor: Karjanen, David J
Description: How is the United States viewed around the world and how do American's view their place in the world? In recent years, globalization and increased American cultural products abroad—such as McDonalds, Hollywood films, and Coca Cola—have given rise to new terms such as "cultural imperialism"—used to describe the domination and influence of American culture globally. While many US products are eagerly consumed outside of the United States, and Hollywood films remain the most widely viewed globally, the US is not always looked on favorably. Many countries ban US films for being too offensive to cultural or religious norms, firms like McDonalds are not allowed to locate too near the Eiffel Tower in Paris because of concerns that it will spoil a prominent area of French culture, and protests over US foreign and economic policy are regular occurrences. By looking at popular media, news reports, and scholarly research, this course will examine the cultural, political, and economic conflicts and tensions between the United States and other countries as perceived by people in both the US and abroad.
Style: 60% Lecture, 40% Discussion.
Grading: 40% final exam, 60% reports/papers.
Exam Format: essay
AMST 3252W American Popular Culture and Politics: 1900 to 1940
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: Young, Stephen Daniel
Description: In this class we will use popular culture as a tool with which to examine U.S. history and society during the tumultuous early decades of the 20th century. This period, which saw the rise of America as a global power, was a time of massive social, technological and economic change. The U.S. military was involved in conquests abroad while enormous waves of immigration spurred furious debates at home. Conflicts erupted over the meaning of American citizenship and over the roles of immigrants, people of color, and women within the nation. And this moment, which saw a struggle for the very soul of the country, also saw the emergence and rapid expansion of the popular culture industry. New technologies such as motion pictures, recorded music, and radio all played major roles in shaping public discourse and defining national identity. We will examine this history through the lens of the popular culture of the time, with particular attention to popular film and music and the roles that they played in shaping American notions of citizenship and American-ness. This course aims to help you understand the enormous importance of this early 20th-century American history, which in so many ways echoes the situation we find ourselves in today.
Style: 50% Lecture, 25% Discussion. 25% film viewing/music listening
Grading: 25% final exam, 55% reports/papers, 20% class participation.
Exam Format: essay

AMST 3253W American Popular Culture and Politics: 1940 to the Present
A-F only, 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: Arrigo, Anthony Francis
Description: Student may contact the instructor or department for information.

AMST 3632W Jewish Women in the United States
3 credit(s); Credit will not be granted if credit has been received for: GWSS 3403W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Prell, Riv-Ellen
Description: What does it mean to be a Jew, a woman and an American? These questions have had many answers over the last two centuries. Our class will answer these questions in many ways. We will learn about how Jewish immigrants and the generations that followed them shaped and were shaped by the United States. The class will examine how religion, family, organizations, the labor movement, work, politics, popular music and film were central to the lives of Jewish women. In addition, we will also study the ways in which anti-Semitism was linked to Jewish women in particular. In studying the history of Jewish women, students will learn about the history of American Jews. Class readings will include novels, historical sources, memoirs, ethnographies, and essays.
Style: 40% Lecture, 60% Discussion.
Grading: 100% other evaluation. two exams and a research paper that can also be done as a group project.

AMST 3920 Topics in American Studies: The Moving Image and the Wandering Jew
3 credit(s); max credits 6;
Instructor: Katz, Judith
Description: Examine the mogul system, watch films you've never heard of and some you know very well. Beginning with a glimpse at European and Yiddish films from the beginning of the last century, we will explore the mogul system in Hollywood; the star system, and discuss the images of Jews in mainstream and independent films as well as the people responsible for the manufacture of those images. Readings include An Empire of Their Own by Neal Gabler and assorted articles.
Style: 5% Lecture, 70% Film/Video, 20% Discussion.
Grading: 75% reports/papers, 25% class participation.

AMST 3920 Topics in American Studies: Culture Wars in the U. S., 1945-2005
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.

AMST 3920 Topics in American Studies: Black Europe -- The African Diaspora
3 credit(s), max credits 6;
Instructor: Keaton, Tricia Danielle
Description: Student may contact the instructor or department for information.

AMST 4301 Workers and Consumers in the Global Economy
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspectives Theme;
Instructor: Pierce, Jennifer L
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.

AMST 4962W Second Proseminar in American Studies
3 credit(s), max credits 6;
Instructor: Prell, Riv-Ellen
Description: The second semester of the Senior Seminar will provide students with a structured environment to write their senior research paper. Through a series of steps, students will conceptualize a problem, undertake the research, and produce a final paper. Seminars will be used for peer feedback and
AMST 5920 Topics in American Studies: Race Colonialism and the Politics of U. S. History
3 credit(s); max credits 9, 3 repeats allowed;
Instructor: Chang, David Anthony
Description: This course will explore the politics of US history by reading in the intellectual and cultural history of the nineteenth and twentieth century, particularly as it concerns American Indian, Hawaiian, and African American interventions on the meaning of colonialism and race. The course centers on cultural and intellectual history and politics, but because these are fields of inquiry that are best studied in broadly interdisciplinary ways, it incorporates readings in theory and cultural studies, as well as foundational documents by nineteenth-century American Indian, Hawaiian, and African American intellectuals.

AMST 8202 Theoretical Foundations and Current Practice in American Studies
3 credit(s); prereq grad AmSt major or instr consent or dept consent;
Instructor: Keaton, Tricia Danielle
Description: Student may contact the instructor or department for information.

AMST 8289 Ethnographic Research Methods: Research Strategies in American Studies
3 credit(s); prereq 8288 or instr consent;
Instructor: Pierce, Jennifer L
Description: This is the second of a two semester research practicum focusing on ethnographic research methods with an emphasis on feminist perspectives from a variety of disciplines. During this semester graduate students will conduct an empirical research project on topics chosen and approved last semester using field research methods and to write a final paper. In addition, we will also consider the assumptions and practices of positivism, reflexive science, and feminist methodology. Among the questions we will explore are: What are the issues surrounding the politics and ethics of ethnographic research? What kind of dilemmas have scholars identified in the practices of fieldwork, oral histories, reading, and writing? What counts as ?evidence? in the writing and reading of ethnography and of history? What does it mean to speak for, write about, and represent `others?? And, what are the dilemmas surrounding reflexivity, identity, and positionality in ethnographic field work? The last six weeks of the course will be spent reading and discussing interview and field note excerpts as well as students? preliminary paper drafts.

AMST 8401 Practicum in American Studies
S-N only, 3 credit(s); prereq instr consent;
Instructor: Castellanos, Bianet
Description: Student may contact the instructor or department for information.

AMST 8920 Topics in American Studies
3 credit(s); max credits 9, 3 repeats allowed;
Instructor: Fajardo, Kale Bantigue
Description: Student may contact the instructor or department for information.

AMST 8970 Independent Study in American Studies
1-9 credit(s), max credits 9, 9 repeats allowed; prereq instr consent, dept consent;
Instructor: Noble, David W
Description: Student may contact the instructor or department for information.

AMST 8970 Independent Study in American Studies
1-9 credit(s), max credits 9, 9 repeats allowed; prereq instr consent, dept consent;
Instructor: Gabaccia, Donna
Description: Student may contact the instructor or department for information.

ANAT 3601 Principles of Human Anatomy
3 credit(s); prereq [BIOL 1009 or equiv], at least soph;
[Concurrent registration is required (or allowed) in 3602 or Concurrent registration is required (or allowed) in 3612 recommended;]
Instructor: Weinhaus, PhD, Anthony James
Description: Anatomical relationships. Function based upon form. Clinical applications. Gross (macroscopic) anatomy, histology (microscopic anatomy), Neuroanatomy (nervous system), embryology (developmental anatomy). This course has been renamed from ANAT 3301. (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 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 3002/INMD 3302;
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

ANAT 3611 Principles of Human Anatomy
3 credit(s); prereq [BIOL 1009 or equiv], at least soph;
[Concurrent registration is required (or allowed) in 3602 or Concurrent registration is required (or allowed) in 3612 recommended;]
Instructor: Weinhaus, PhD, Anthony James
Description: Anatomical relationships. Function based upon form. Clinical applications. Gross (macroscopic) anatomy, histology (microscopic anatomy), Neuroanatomy (nervous system), embryology (developmental anatomy). This course has been renamed from ANAT 3301. This course is identical to ANAT 3601. (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.
Exam Format: Multiple choice

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 3602/INMD 3002/INMD 3302;
Instructor: Weinhaus, PhD, Anthony James
Description: Cadaveric examination of Human Anatomy, including: Gross (macroscopic) anatomy, histology (microscopic anatomy).
anatomy), Neuroanatomy (nervous system), and embryology (developmental anatomy). This course has been renamed from ANAT 3302. 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

ANAT 4900 Directed Studies in Anatomy
S-N only, 1-6 credit(s), max credits 18, 3 repeats allowed; prereq instr consent; Instructor: Weinhaus PhD,Anthony James
Description: Intended for students who have successfully completed ANAT 3001/3301 or ANAT 3601/3611 and have arranged to conduct an extensive research project with course director or have been selected as a Teaching Assistant. Requires course directors approval.
Style: 90% Laboratory, 10% Service Learning. At least 60 hours of laboratory required
Grading: S/N based upon hours completed in lab.

Animal Science
305 Haecker Hall

ANSC 1021 Avian Sampler
1 credit(s);
Instructor: Jacob,Jacquie
Description: The Avian Sampler is an introductory class designed to teach students different aspects of avian biology. The course will discuss different environmental and conservation practices along with wildlife rehabilitation programs that are important for maintaining healthy populations of wild birds in Minnesota. The care, management and health considerations of many types of avian species such as domestic poultry, raptors, raptors, and companion birds will be discussed.
Style: 80% Lecture, 20% Discussion. in-class lecture assignments
Exam Format: take home exams: multiple choice, fill in the blank, short answer

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 related 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 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.
Style: 75% Lecture, 25% Discussion.
Grading: 50% mid exam, 20% final exam, 10% laboratory evaluation, 20% problem solving.
Exam Format: short answer

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

ANSC 2014 Poultry Judging
2 credit(s);
Instructor: Jacob,Jacquie
Description: Student may contact the instructor or department for information.

ANSC 2211 Biometrics for Livestock
3 credit(s); prereq Math 1031 or higher; Credit will not be granted if credit has been received for: STAT 3011; Meets CLE req of Mathematical Thinking Core;
Instructor: Hansen,Leslie Bennett
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);
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 interrelate. 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.
Style: 75% Lecture, 25% Discussion.
Grading: 50% mid exam, 20% final exam, 10% 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

This information is accurate as of 9/15/2008 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.
ANSC 3023W Environment, Global Food Production, and the Citizen
3 credit(s); Credit will not be granted if credit has been received for: AGRO 3203W; Meets CLE req of Citizenship/Publi 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 [2301, 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: Fahrenkrug, 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 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; prereq COAFES undergrad, instr consent, complete internship contract available in COAFES Career Services before enrolling; UC only; Instructor: Linn, Jim
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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite COAFES undergrad, instr consent, complete internship contract available in COAFES Career Services before enrolling; UC only;
Instructor: El Halawani, PhD, 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); prerequisite 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 feeds, 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); prerequisite 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: 60% Lecture, 40% Laboratory.
Grading: 65% Exam, 35% Discussion, videotapes and in-class assignments
Exam Format: multiple choice, true/false, essay, matching, short answer

ANSC 4604 Dairy Production Systems Management
4 credit(s); prerequisite Concurrent registration is required (or allowed) in 4614 4614;
Instructor: Reneau, Jeffrey Kimball
Description: This course is focused on the management of dairy herd health. The course is designed to build problem solving skills in a real-world setting. Most of the class time is spent in decision care discussions. Laboratories will be spent learning practical dairy management skills. For example, milking technique analysis, body condition scoring, etc. Field trips will be taken to visit progressive area dairies. This is an ideal course for any student who anticipates operating a dairy or becoming a dairy herd consultant. The class materials consist of work sheets and reference materials in the areas of dairy farm management, nutrition and forages, reproduction, milk quality and mastitis, genetics and young stock management and dairy housing. Students will be assigned to teams, and will visit a "real dairy", at which they are expected to collect data, samples, study records, etc. and write an analysis of the herd’s strengths and weaknesses and make recommendations to improve herd profitability.
Style: 25% Lecture, 50% Discussion, 25% Laboratory.
Grading: 40% Mid exam, 40% Final exam, 20% class participation.
Exam Format: essay

ANSC 4611 Advanced Pork Production Systems Management
2 credit(s); prerequisite 4601;

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ANTH 1001 Human Evolution
4 credit(s); Meets CLE req of Biological Sciences/Lab Core;
Instructor: Bangs MA, Eric William
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: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

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

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 Perspective Theme; meets CLE req of Writing Intensive;
Instructor: Nienow, Jeremy Loren
Description: Student may contact the instructor or department for information.

ANTH 1005W Introduction to Cultural Diversity and the World System
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;
Instructor: Nienow, Jeremy Loren
Description: Student may contact the instructor or department for information.

ANTH 1906W Freshman Seminar: Changing Human Adaptations
A-F only, 3 credit(s); prereq freshman; Meets CLE req of Environment Theme; meets CLE req of Writing Intensive;
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

ANTH 3002 Sex, Evolution, and Behavior: Examining Human Evolutionary Biology
A-F only, 4 credit(s);
Instructor: Wilson, Michael Lawrence
Description: Evolutionary theory provides unique insights into fundamental aspects of human behavior, including sex differences, courtship, marriage, reproduction, aggression and cooperation. In this course, lectures, reading and discussion of primary literature help students develop a critical understanding of the theory, methods, and findings of this rapidly growing field.

ANTH 3003 Cultural Anthropology
3 credit(s); Credit will not be granted if credit has been received for: GLOS 3003;
Instructor: Lipset, David M
Description: This course closely examines different theoretical approaches to the study of different cultures. Major conceptual frameworks in modern cultural anthropology will be selected, such as social structural, Marxist, Freudian, and globalization. Ethnographic monographs will form the basis of the readings. Works such as Benedict's "Chrysanthemum and the Sword" and Taussig's "The Devil and Commodity Fetishism" will be read both for ethnographic and theoretical goals and contents. The course is meant for premajors, majors and other interested students. It will be taught using lecture format and small group activities.
Style: 60% Lecture, 40% Discussion.
Grading: 80% mid exam, 20% final exam.
Exam Format: essay

ANTH 3004 Great Controversies in Anthropology
A-F only, 3 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core;
Instructor: Gudeman, Stephen Frederick
Description: Anthropology has been home to famous controversies about human behavior, reason and behavior. We will explore six heated controversies that revolve around topics such as "facts," gender, "truth," poverty and deception. For example, should the famous Margaret Mead have believed Samoan girls when they talked about their sexual lives, can we make moral judgments about other cultures, and what happens when an anthropologist finds a people repulsive? Whose "voices" should be heard when determining the facts? After examining a controversy, we will divide into two sides, debate the issues and then try to reach a judicious perspective. Student participation will play a central role in our explorations into the seamy edges of anthropology, ourselves and other cultures.
Style: 40% Lecture, 50% Discussion. Films
Grading: 55% mid exam, 35% reports/papers, 10% class participation.
Exam Format: Essay

ANTH 3009 Rise of Civilization
3 credit(s); Meets CLE req of International Perspective 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
...
ANTH 3028W 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.
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 3980 Topics in Anthropology: Anthropology of Hip-Hop
3 credit(s), max credits 6; Instructor: Anfinson, Scott F
Description: The course covers the historical trajectory of hip-hop from its inception in the post-civil rights era of New York City during 1970's in the form of four elements - break dancing, rap, turntablism, and graffiti art - to its contemporary identity as a global youth phenomenon. The historical development of hip-hop is accompanied with the analysis of scholarly works ranging from contemporary academic research to old-school rap lyrics. Literature, lectures, legal cases, films and multi-media projects individually analyze each element and question the four-element paradigm that defines hip-hop today. The course looks at the role gender, class, and race play in the use of hip-hop as a tool for social change while simultaneously acting as a corporate marketing device. The course aims to re-structure stereotypes and offer a deeper perspective into how hip-hop defines the identities of individuals as well as the consciousness of masses. Anthropology of Hip-Hop breaks down the course into nine distinct sections: (1) Legendary Roots, (2) ?Hip-Hop!? the Four Elements and Pop Culture, (3) The New Revolution & Gangster Rap, (4) Rap on Trial, (5) Race & Class Politics of Hip-Hop, (6) Turntablism & Production, (7) Bling Bling: Hip-Hop Consumerism, (8) Gender/Sexuality, and (9) Global Hip-Hop. Guest speakers and local hip-hop artists are incorporated into the course so as to contribute to an ongoing dialogue between academia and the community. Students are expected to actively participate in class sessions, maintain the designated reading schedule and participate in one of five (1 of 5) two-hour workshops (break dance, turntablism, aerosol art, lyricism, and/or beat boxing) outside of regularly scheduled class time.

ANTH 3015W Ecological Anthropology
3 credit(s); Meets CLE req of Citizenship/Publ Ethcs Theme; meets CLE req of Environment Theme;
Instructor: Smith, Richard Currie
Description: Concepts, theories, and methods of ecological anthropology (cultural ecology). How humans interact with biophysical environment. Compares biological/cultural interactions with environment. Culture, as the living communicative system of a group, is recognized as the medium through which humans perceive, interpret and act upon their environment. It is therefore the realm where both the cause and cure of global climate change, and nearly all other contemporary environmental challenges, are found. This course brings clarity to human/nature interaction by applying principles that underlie living systems to diverse cultures throughout the world, both past and present. Students in the social sciences, natural sciences, arts and humanities will benefit from the course since it merges the socio-cultural and biophysical domains while incorporating ideas concerning beauty and the sacred into an ecological way of thinking. (To obtain Instructor consent for prerequisite waiver, e-mail Richard Currie Smith at smit1067@umn.edu; more info at livingwebconsulting.com)
Style: 25% Lecture, 20% Film/Video, 25% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 20% mid exam, 30% reports/papers, 20% special projects, 10% quizzes, 20% class participation. The special project will culminate in a small group presentation
Exam Format: Short essay

ANTH 3006W Medical Anthropology
A-F only, 4 credit(s); prerequisite 1003 or 1005 or entry level social science course recommended; Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive; Instructor: Patten, Sonia E
Description: Student may contact the instructor or department for information.

ANTH 3001 Advanced Method and Theory in Archaeology
Spring 2008
This is a full page of text from the University of Minnesota - Course Guide for Twin Cities Campus. The information is accurate as of 9/15/2008 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.
ANTH 4007 Laboratory Techniques in Archaeology
1-4 credit(s); max credits 12; 3 repeats allowed; prereq instr 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 4031W Anthropology and Social Justice
4 credit(s); prereq 1003 or 1005 or 4003 or grad student or instr consent Theme; meets CLE req of Citizenship/Publ Ethics Credit: A-F only; 3 credit(s); prerequisite 1001 or 3001 or 3002 or 3003 or instr consent Description: For information.

ANTH 4047 Anthropology of American Culture
3 credit(s); prereq 1003 or 1005 or 3003 or instr consent; Instructor: Champe, John Charles Description: Student may contact the instructor or department for information.

ANTH 4065 The Anthropology of Development
3 credit(s); Instructor: Gudeman, Stephen Frederick Description: Many people around the globe live in poverty with little hope of improvement except through assisted development. We will explore the many anthropological contributions to development practice and theory, as well as an anthropology of the development process itself. We will take both an affirmative "inside" and a critical "outside" perspective on development activities, and ask if we can find alternatives to current ideas. Development projects raise many questions; for example, should they always be focused on economic growth? Who benefits from them? Is sustainable development possible or a fantasy? Should we place more emphasis on expanding human rights and freedom rather than economic development? As we traverse this complicated field, we will ask what role the anthropologist might play. Can anthropological concepts expand our understanding of development? The course is divided into several parts: (a) background on what development has meant, (b) anthropological studies and critiques, (c) newer approaches, and (d) an extended case simulation of a development situation that will involve student role playing, participation and discussion. Lectures will be used to introduce each section, but the emphasis will be on class involvement and participation. Several videos will be shown to be followed by discussion. The course is intended primarily for undergraduates.

ANTH 4099 Environmental Archaeology
3 credit(s); prereq 1001, 3001 or grad; Meets CLE req of Environment Theme; meets CLE req of Social Science Core; Instructor: Thompson, Robert Gordon Description: Student may contact the instructor or department for information.

ANTH 4071 Race, Culture, and Vision
A-F only, 3 credit(s); prereq 1003 or 1005 or 3003 or instr consent; Instructor: Kapusta-Pofahl, Karen Marie Description: Student may contact the instructor or department for information.

ANTH 4980 Topics in Sociocultural Anthropology: Tribal Nations of the Plains and Prairies
3 credit(s), max credits 6; Instructor: Albers, Patricia Description: Student may contact the instructor or department for information.

ANTH 4990 Topics in Archaeology: Seminar: Human Skeletal Analysis
3 credit(s), max credits 6; Instructor: McNulty, Kieran P Description: This course is designed to introduce students to the structure, design, and variability of the modern human skeleton. Much as the bony skeleton offers a framework for the rest of the body, so this course will provide a foundation for future studies in areas such as forensic sciences, physical anthropology, archaeology, and most aspects of medicine. For each element of the skeleton we will examine issues of structure, function, development, and evolutionary history. Lectures will also emphasize bone histology and biology, excavation and...
preservation, taphonomy, pathology, and estimations of age, sex, and stature. All class meetings will be held in the lab, and half of the meetings will be devoted to hands-on exploration of human skeletal remains. By the end of the semester students will be able to identify every bone in the body, recognize some of their important landmarks, and determine basic demographic data such as sex and age.

ANTH 501SW 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 5041 Ecological Anthropology
3 credit(s); prereq grad or instr consent; Credit will not be granted if credit has been received for: ANTH 8213; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;
Instructor: Smith, Richard Currie
Description: Concepts, theories, and methods of ecological anthropology (cultural ecology). How humans interact with biophysical environment. Compares biological/cultural interactions with environment. Culture, as the living communicative system of a group, is recognized as the medium through which humans perceive, interpret and act upon their environment. It is therefore the realm where both the cause and cure of global climate change, and nearly all other contemporary environmental challenges, are found. This course brings clarity to human/nature interaction by applying principles that underlie living systems to diverse cultures throughout the world, both past and present. Students in the social sciences, natural sciences, arts and humanities will benefit from the course since it merges the socio-cultural and biophysical domains while incorporating ideas concerning beauty and the sacred into an ecological way of thinking. (To obtain Instructor consent for prereq waiver, e-mail Richard Currie Smith at smt1067t@umn.edu; more info at livingwebconsulting.com)
Style: 25% Lecture, 20% Film/Video, 25% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 20% mid exam, 30% reports/papers, 20% special projects, 10% quizzes, 20% class participation. The special project will culminate in a small group presentation
Exam Format: Short essay

ANTH 5128 Anthropology of Learning
3 credit(s); Credit will not be granted if credit has been received for: EDPA 5128;
Instructor: Demerath, Peter
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
3 credit(s), max credits 6;
Instructor: Sheldon, Amy
Description: This course will critically examine the claim that females and males use language differently by looking at actual language use. We examine how language constructs and evaluates normative and non-normative sexualities and genders. Possible topics: the relationship between gender, sexualities, language and power; practices that create conversational dominance and silencing; gender and sexuality as dualism and/or multiplicity; linguistic stereotypes of gender; gender and linguistic stylization; language as a resource to perform gender and sexual orientation; language issues in L.G.B. and T communities; what science can tell us about how a culture views gender and sexuality; sexist and nonsexist language and language reform; etc. Language contexts include, but are not limited to: everyday conversational interactions that create (close) personal relationships, personal narratives, talk in public spaces (e.g., classrooms, courtrooms, workplaces, etc.), non-face-to-face communications: online, media, fantasy phone lines. Students will observe their own and others' everyday speech. Term projects (including senior papers, M.A. and Ph.D. papers) can be started early and developed with guidance across the semester. The focus is on English but comparisons across languages are welcome. Texts: Eckert & McConnell-Ginet, 2001. Language & Gender, Oxford; Hall & Bucholtz, 1995. Gender Articulated. Routledge. And electronic reserve readings. Prerequisite: One course in feminist studies or the equivalent, or permission of the instructor. If you have questions, or need a permission number to register, please contact Prof. Amy Sheldon, asheldon@umn.edu

ANTH 5990 Topics in Archaeology: Hominids, Hyenas & Habitats
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Tappen, Martha
Description: This course is a seminar on human evolution and the interpretation of the hominin fossil and paleoenvironmental record. We will read the primary literature on well preserved sites and on major new fossil finds, as well as background materials and the history of theories to put the evidence into context. Each week students will read and discuss articles. We will discuss assumptions and evidence for major theories in paleoanthropology such as: *Climate change and evolutionary events: Savannastan?* predation on hominins as a selection pressure (e.g. large cats such as the sabretooths) * hunting * scavenging * central place foraging * fire and cooking *long-distance running *the grandmother hypothesis *the grandfather hypothesis *Out of Africa Students will present a report on a major paleoanthropological site and write a paper on a related subject of interest to them and teach the rest of the students what they have learned in the last week or two of class.

ANTH 5990 Topics in Archaeology: Midwest Archaeology
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Anfinson, Scott F
Description: This course is a seminar on human evolution and the interpretation of the hominin fossil and paleoenvironmental record. We will read the primary literature on well preserved sites and on major new fossil finds, as well as background materials and the history of theories to put the evidence into context. Each week students will read and discuss articles. We will discuss assumptions and evidence for major theories in paleoanthropology such as: *Climate change and evolutionary events: Savannastan?* predation on hominins as a selection pressure (e.g. large cats such as the sabretooths) * hunting * scavenging * central place foraging * fire and cooking *long-distance running *the grandmother hypothesis *the grandfather hypothesis *Out of Africa Students will present a report on a major paleoanthropological site and write a paper on a related subject of interest to them and teach the rest of the students what they have learned in the last week or two of class.

This information is accurate as of 9/15/2008 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.
ANTH 8002 Ethnography: Contemporary Theory and Practice
A-F only, 5 credits; Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

ANTH 8510 Topics in Archaeology: Archaeology of Representation
3-9 credit(s), max credits 9, 3 repeats allowed; 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 8510 Topics in Archaeology: hominids, Hyenas & Habitats
3-9 credit(s), max credits 9, 3 repeats allowed; Instructor: Tappen, Martha
Description: This course is a seminar on human evolution and the interpretation of the hominid fossil and paleoenvironmental record. We will read the primary literature on well preserved sites and on major new fossil finds, as well as background materials and the history of theories to put the evidence into context. Each week students will read and discuss articles. We will discuss assumptions and evidence for major theories in paleoanthropology such as: Climate change and evolutionary events: Savannastan? predation on hominins as a selection pressure (e.g. large cats such as the sabretooths) * hunting * scavenging central place foraging fire and cooking long-distance running the grandmother hypothesis the grandfather hypothesis Out of Africa Students will present a report on a major paleoanthropological site and write a paper on a related subject of interest to them and teach the rest of the students what they have learned in the last week or two of class.
Style: 20% Lecture, 70% Discussion, 10% Laboratory.

ANTH 8810 Topics in Sociocultural Anthropology: Signification and Social Analysis
3-9 credit(s), max credits 9, 3 repeats allowed; Instructor: Langford, Jean M
Description: What do the voice of a spirit, the symptom of a disease, dioramas in a museum, omens of misfortune, and economic currency have in common? In this seminar we will consider one possible answer to this question: signification. We begin from the premise that the relationships between sign and referent, symbol and meaning, and representation and reality, are crucial to cultural worlds and cultural theory. We explore the ways that these relationships, far from being relevant only within linguistics or philosophy, are deeply implicated in everyday concepts like architectural facade, gender identity, cultural tradition, or monetary value. Through this course we discuss about how ideas of signification can be used to understand spiritual practices, medicine, colonial politics, commodification, ethnographic method, and other social processes. Finally we ask: Are modes of signification simply techniques of knowing, or are they charged with particular politics? The seminar will move back and forth between close readings of key theoretical texts (e.g. by Ferdinand de Saussure, Michel Foucault, Jacques Derrida, Roland Barthes, Jacques Lacan, Judith Butler), and ethnographies, histories, and cultural critiques in which signification comes alive in social analysis (e.g. by Claude Levi-Strauss, Marilyn Ivy, John Pemberton, Kathleen Stewart, Timothy Mitchell, Homi Bhabha, Allan Feldman, Michael Taussig). One objective is to develop a beginning familiarity with post-structuralist literature and its relevance for politically engaged social theory.

ANTH 8810 Topics in Sociocultural Anthropology: Linguistic Anthropology
3-9 credit(s), max credits 9, 3 repeats allowed; Instructor: Valentine, David
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); prerequisite: Introductory statistics; Instructor: Huchendorf, Steven Craig
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); prerequisite: 45 cr completed; Instructor: Haarklau, Evon A
Description: A course of study and application designed to give students a current understanding of the demands on today's managers that goes beyond the techniques and ideas traditionally taught in management courses. The focus on small to medium-sized organizations will allow students to apply management theory to every level of any organization, as well as to large-sized organizations and not-for-profits. Topics include managing in the "new workplace" and ever-changing global environment; organizational planning and decision making; organizing resources; leading and motivating people; and controlling and evaluating organizational activities.

ABUS 4031 Accessing and Using Information Effectively
A-F only, 3 credit(s); prerequisite: 45 cr completed; Instructor: Swanson, Trisha Katherine
Description: Information resources available to businesses and how to use them. The course begins with conceptualization of the role of information in business operations, including information systems and data management. A typology of information is presented and applied in short case studies and exercises, including data-based, text-based, oral, written, and multimedia forms of information. Accessing external information for the firm is reviewed through experiences with library resources, such as information search services, CD-ROM, and periodicals. Accessing internal information for the firm is reviewed through experiences with desktop database systems and electronic mail or computer conferencing. Requires computer and internet skills, and nearly daily access to the World Wide Web, word processing, and printer. Requires visits to a library in your area. No restrictions for financial aid.

ABUS 4041 Dynamics of Leadership
A-F only, 3 credit(s); prerequisite: 45 cr completed; Instructor: Kaiser, David Lee
Description: What makes for successful leaders? The organization in which a leader works will provide knowledge and skills that strongly influence success. Strong leaders use many different approaches from many different perspectives. This results in a dynamic approach that will develop, grow and change -- rather than a static inflexible approach. In this course, the knowledge, skills and abilities that leaders develop are investigated from eight leadership strategies - Academic, Bureaucratic, Eclectic, Economic, Fellowship, Military, Political, and Social. The course concludes by examining how to lead diverse populations and being a successful leader in a global environment.

ABUS 4321 Evaluating Performance Excellence in Organizations
S-N only, 3 credit(s); prerequisite: Submit MNQA evaluator application; Instructor: Lassiter, Brian S
Description: Systematic processes for leadership, quality improvement, Baldrige Award, ISO 9000, process control, performance measurement systems and Six Sigma.
improvement, and performance excellence. Analyze strengths and improvements using the Baldrige 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: This course will explore how new consumer, industrial, and service products are planned and developed. It will examine idea generation, concept and buyer testing, pricing, sales and profit strategies, product positioning techniques, promotion, packaging and distribution considerations from a new product development perspective, using marketing case histories and student project work.

ABUS 4701 Introduction to Marketing
A-F only, 3 credit(s); prereq Acct 2050, Econ 1101, 45 cr completed;
Instructor: Aggarwal, Praveen
Description: Provides an introduction to marketing as the facilitation of exchanges that satisfy the needs of all parties. Emphasis is placed on the conceptual tools necessary for the creation of a sound marketing plan. Explains how marketing relates to other functional areas of business and the importance of an ethical, global view.

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: Blumenthal, Marsha Ann
Description: Student may contact the instructor or department for information.

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: Okediji, Tade O
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: Essay, short answer, graphs

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

APEC 3002 Applied Microeconomics: Managerial Economics
4 credit(s); prereq [[3001 or ECON 3101], [OMS 2550 or STAT 3011]] or instr consent ;
Instructor: Homans, Frances Reed
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 and Markets.
Style: 50% Lecture, 10% Discussion, 40% Laboratory.
Grading: 50% mid exam, 25% final exam, 25% other evaluation.
Lab and problem set assignments
Exam Format: Problems, short answer, short essay

APEC 3006 Applied Macroeconomics: Government and the Economy
3 credit(s); prereq [[1102 or Econ 1102], [3001 or Econ 3101]] or instr consent ; Credit will not be granted if credit has been received for: ECON 3102;
Instructor: Smith, Rodney B
Description: This course is concerned mainly with aggregate economic activity and economic growth. Major emphasis is on factors determining national income, employment, interest rates, and the price level. These factors include aggregate consumption, business investment, imports and exports, government spending and taxation, the money market, and the labor market. The impact of savings and technical progress on economic growth is examined using a simple model of economic growth.
Style: 80% Lecture, 20% Laboratory. In class discussion.
Grading: 60% mid exam, 40% final exam.
Exam Format: combination of true/false explain, multiple choice, and short essay

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 1101 or Econ 1101;
Instructor: Nefstead, Ward Elliot
Description: Provides an introduction to marketing as the creation of a sound marketing plan. Explains how marketing relates to other functional areas of business and the importance of an ethical, global view.

This information is accurate as of 9/15/2008 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 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
ecommerce applications. Group exercises and management
cases/simulations will be used as well as assigned projects off
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 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: Porter, Paul M
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.

APEC 4481 Futures and Options Markets
3 credit(s); prereq [3501 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: Buhr, Brian L
Description: This course regards the study of futures and
options markets. Primary emphasis will be on commodity futures
markets (e.g., food complex, energy complex, metals complex);
however, consideration will also be given to financial, currency,
and stock market futures and options. Approximately the first
one-third of the course will focus on futures and options markets
history, roles of participants, and tactics and strategies for usage
of futures and options. Two-thirds of the course will focus on the
application of futures and options markets to risk management,
including their role in forward pricing and derivatives markets.
Analytic skills including calculus and statistics will be important
for successful completion of the course. Students will also
participate in risk management case studies, an online trading
simulation and tours of the Minneapolis Grain Exchange.
Style: 75% Lecture, 20% Discussion. Tours to Minneapolis
Grain Exchange
Grading: 30% mid exam, 40% final exam, 5% reports/papers,
5% special projects, 5% class participation, 15% problem
solving.
Exam Format: Multiple Choice, True/False, short Answer
Problem Solving

APEC 4501 Financial Modeling
A-F only, 3 credit(s); prereq [3501 or FINA 3001], [1251 or
ACCT 2050];
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
involves 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 5401 Financial Modeling
A-F only, 3 credit(s); prereq [3501 or FINA 3001], [1251 or
ACCT 2050];
Instructor: Lazarus, William Franklin
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: Davis, Elizabeth E
Description: This course explores statistical and econometric methods for the analysis of large data sets to support managerial and policy decisions. Topics include: Methods for organizing, accessing, and ensuring the quality of data; Estimation techniques including panel data methods, limited dependent variable models, and time series analysis; Clarity of reporting and design of procedures for maintaining and updating data and 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 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 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: Buhr, Brian L
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: Smith, Rodney B
Description: Student may contact the instructor or department for information.

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

APEC 8702 Economic and Trade Policy: Sectoral and Institutional Issues
3 credit(s); prereq 8230, Econ 8002 or Econ 8102 or instr consent;
Instructor: Smith, Pamela Jane
Description: Student may contact the instructor or department for information.

APEC 8803 Marketing Economics
A-F only, 2 credit(s); prereq [Econ 8001, Econ 8002] or [Econ 8101, Econ 8102] or instr consent;
Instructor: Liu, Donald J.
Description: Student may contact the instructor or department for information.

APEC 8804 Managerial Economics
2 credit(s); prereq [8202, Econ 5151] or [Econ 8001, Econ 8002] or [Econ 8101, Econ 8102] or instr consent; Majors must register A-F basis;
Instructor: Yeap, Clarissa A
Description: Student may contact the instructor or department for information.

APEC 8901 Graduate Seminar: M.S. Program
S-N only, 1 credit(s); prereq Agri/ApEc MS student or ApEc MS student;
Instructor: Mc Cullough, Gerard John
Description: Student may contact the instructor or department for information.

APEC 8902 Graduate Seminar: Ph.D. Program
S-N only, 1 credit(s); prereq Agri/ApEc PhD student or ApEc PhD student;
Instructor: Hurley, Terry
Description: Student may contact the instructor or department for information.

APEC 8991 Advanced Topics in Applied Economics: Applied Dynamic General Equilibrium
2 credit(s), max credits 6, 1 repeat allowed; prereq instr consent;
Instructor: Roe, Terry Lee
Description: Student may contact the instructor or department for information.

Applied Plant Sciences
411 Borlaug Hall

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;
ARAB 1102 Beginning Arabic
5 credit(s); prereq 1101 or equiv or instr consent;
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, speaking, and writing 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% midterm 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
5 credit(s); prereq 1101 or equiv or instr consent;
Instructor: Mohammed, Sidow Abdishariff
Description: Student may contact the instructor or department
for information.

ARAB 1102 Beginning Arabic
5 credit(s); prereq 1101 or equiv or instr consent;
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: 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

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

ARAB 4102 Beginning Arabic
5 credit(s); prereq 1004 in another language or passing
score on LPE or grad student;
Instructor: Chahine, Iman Chafik
Description: Student may contact the instructor or department
for information.

ARAB 5102 Advanced Arabic II
3 credit(s), max credits 4, 1 repeat allowed; prereq 5101 or
instr consent;
Instructor: Khalek, Hisham A
Description: Arabic 5102 is a continuation of 5101 and the
second in a two-course series. The course is designed to
reinforce and capitalize on the beginning and intermediate levels
to advance language proficiency in formal Arabic. In speaking,
the course trains students to understand and use complex and
compound sentences. In reading, the course trains students to
apply the dialectical marks when reading from scholarly
textbooks and journals. Writing skills are enhanced through the
writing of weekly journals, homework assignments, and
translations. Listening exercises and drills are utilized in class as
well as in the language lab by listening and watching audio and
video materials. The course is also aimed at advancing students
knowledge of the cultures of the Arab world. The target audience
is undergraduate and graduate students. The text is Al-Kitaab,
Part Two, by Brustad, Al-Batal, and Al-Tonsi, aided by audio and
video cassettes.
Style: 20% Lecture, 60% Discussion.
Grading: 30% written journals, 20% translations, 10% class
participation, 30% tests, 5% presentation, and 5% oral
examination.
Exam Format: Fill in the blank, multiple choice, content-based
inference.

ARCH 1701 The Designed Environment
A-F only, 3 credit(s);
Instructor: Saloojee, Ozayr
Description: ARCH 1701 is an introductory level course that
explores how architecture interacts with - and is influenced by -
other disciplines and areas of knowledge. This course (a
required course for those wishing to enter the major) examines
architecture as a way to ‘see’ and ‘know’ the world around us -
inflected by broad contexts such as mathematics, science,
philosophy, history, biology, power and culture. A primary
objective of this class is to locate architecture within the complex
matrix of civilization. The class examines architecture as a rich
field of production and highlights the relationship between
architecture as education and architecture as practice, and
attempts to understand architecture as more than construction,
surface and style.

ARCH 1701H Honors: The Designed Environment
A-F only, 3 credit(s); prereq [Fr or soph] honors;
Instructor: Saloojee, Ozayr
Description: Student may contact the instructor or department
for information.

ARCH 2281 Design Fundamentals II
A-F only, 4 credit(s); prereq 1301, arch major;
Instructor: Ibarra Sevilla, Benjamin
Description: Student may contact the instructor or department
for information.

ARCH 3150 Topics in Architecture: Working Through Arch:
Faculty Lecture Series
1 credit(s), max credits 24, 4 repeats allowed;
Instructor: Van Duze, Leslie Kathryn
Description: February 5: Leon Satkowski, Professor - ANDREA
PALLADIO: ARCHITECTURE AND AGRITECTURE, February
19: Ozay Saloojee, Assistant Professor - KOCA MIMAR SINAN:
ARCHITECT OF CITY AND CIVILIZATION, February 26: Kate
This information is accurate as of 9/15/2008 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: 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: Contemporary Dutch Housing
A-F only, 3 credit(s), max credits 24, 6 repeats allowed; prereq Arch major or instr consent ; Instructor: Robinson PhD, Julia Williams Description: Student may contact the instructor or department for information.

ARCH 4150 Topics in Architecture: The City as Theatre
A-F only, 3 credit(s), max credits 24, 6 repeats allowed; prereq Arch major or instr consent ; Instructor: Ferguson, Robert P Description: Why the city as theatre? We can hardly take either for granted. Whatever we still understand to be true, whatever our experience or our wishes, the technical language of architecture and urban design provides little space for such a juxtaposition. If the city is a mechanism for exchange of goods and services, and theatre is a form of entertainment, then how can the two be addressed on the same level? This is why we must work to remember that, historically, city and theatre appear concurrently, hand in hand. At the time that both are named, we don't get one without the other. Representation and civilisation meet at the same crossroads. What forms the basis for this formulation on the part of the ancient Greeks, and what has our culture made of this fundamental reciprocity since? Why do we still find it fundamental? Do we? We will work chronologically, from the emergence of both themes to the present day, stressing not only architectural examples, and not only literary theatre, but also theatrical and urban aspects of writings ranging from Homer and Vergil to Benjamin and Debord. This provides a scheduled range of topics for student presentation: students may choose from the schedule, but are especially encouraged to negotiate an appropriate topic of their own. In the course of the semester, each student will make one presentation to the group, then revise and write up the material as a paper to be submitted at the end. Such communication and engagement in dialogue is not separate from research in the history of architecture, but integral to it: development of skills in academic writing is a primary learning objective of this course. Regardless of the timing of the presentation, an abstract will be due at four weeks, and a draft at midterm. While the abstract and draft are not graded, they must be submitted in order to receive credit for the course. Also mandatory are individual and small-group research and writing consultations with the instructor, at times to be determined. The grade will be based on the presentation (40%), the paper (50%), and participation in discussions (10%).

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

ARCH 4150 Topics in Architecture: The Architecture of Minnesota
A-F only, 3 credit(s), max credits 24, 6 repeats allowed; prereq Arch major or instr consent ; Instructor: Satkowski, Leon Description: Student may contact the instructor or department for information.

ARCH 4150 Topics in Architecture: American Cultural Landscapes
A-F only, 3 credit(s), max credits 24, 6 repeats allowed; prereq Arch major or instr consent ; Instructor: Iannacone, Rachel Description: In this course, students will examine American buildings, both monumental and vernacular, within a broad social and cultural context. We will study the relationship between buildings and landscape and consider the ways that politics, money, and culture affect the development of the built environment. Our examination will include corporate, educational, domestic, and leisure landscapes, which we will study through various lenses including race, gender, and class. The course is discussion-oriented with a focus on writing and
ARCH 4284 Undergraduate Architecture Studio IV  
A-F only, 6 credit(s); prereq 4283, BS Arch major;  
Instructor: Westbrook, Thomas Robert  
Description: Student may contact the instructor or department for information.

ARCH 4301 Conceptual Drawing  
A-F only, 3 credit(s); prereq [1301 or 2301], Arch major;  
Instructor: Piotrowski, Andrzej  
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 4446 Architecture Since World War II: Post-War Experimentation: Aesthetics and Politics of Architecture  
A-F only, 3 credit(s); prereq 3412 or instr consent;  
Instructor: Bhatt, Ritu  
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: Tollefson, 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: Weber Jr, William G  
Description: Issues related to environmental quality/design. Climate response. Heating, cooling, lighting design. Indoor air quality.

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: Schoessler Lynn, Rachelle M  
Description: Student may contact the instructor or department for information.

ARCH 4571 Architectural Structures I  
A-F only, 3 credit(s); prereq BS Arch major;  
Instructor: Strothman, Susan C  

ARCH 4672 Historic Building Conservation  
A-F only, 3 credit(s); prereq 4671 or instr consent;  
Instructor: Mack, Robert Callan  

ARCH 5292 Accelerated Undergraduate Architecture Studio II  
A-F only, 6 credit(s); prereq [5291, accelerated status] or instr consent;  
Instructor: Roe, Sharon Louise  
Description: Student may contact the instructor or department for information.

ARCH 5301 Conceptual Drawing  
A-F only, 3 credit(s); prereq [1301, M.Arch major] or instr consent;  
Instructor: Piotrowski, Andrzej  
Description: Drawing as a way of analyzing, exploring, and generating design ideas. Projection systems, diagramming, mapping. Different modes of visual perception. Nonverbal structures.

ARCH 5361 3-D Computer Architectural Modeling and Design  
A-F only, 3 credit(s); prereq 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 5362 3-D Computer Architectural Modeling and Design  
A-F only, 3 credit(s); prereq M Arch major; Credit will not be granted if credit has been received for: ARCH 5361;  
Instructor: Dozier, James  
Description: Student may contact the instructor or department for information.

ARCH 5372 Computer Methods II  
S-N only, 1 credit(s); prereq 5371, concurrent registration is required (or allowed) in 6252 and M Arch major or instr consent; Credit will not be granted if credit has been received for: LA 5372;  
Instructor: McLellan, Ian A  
Description: Student may contact the instructor or department for information.

ARCH 5382 Computer Aided Architectural Design  
A-F only, 3 credit(s); prereq 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: The City as Theatre  
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prereq M Arch major or instr consent;  
Instructor: Ferguson, Robert P  
Description: Why the city as theatre? We can hardly take either for granted. Whatever we still understand to be true, whatever our experience or our wishes, the technical language of architecture and urban design provides little space for such a juxtaposition. If the city is a mechanism for exchange of goods and services, and theatre is a form of entertainment, then how can the two be addressed on the same level? This is why we must work to remember that, historically, city and theatre appear concurrently, hand in hand. At the time that both are named, we don't get one without the other. Representation and civilisation meet at the same crossroads. What forms the basis for this formulation on the part of the ancient Greeks, and what has our culture made of this fundamental reciprocity since? Why do we...
still find it fundamental? Do we? We will work chronologically, from the emergence of both themes to the present day, stressing not only architectural examples, and not only literary theatre, but also theatrical and urban aspects of writings ranging from Homer and Vergil to Benjamin and Debord. This provides a scheduled range of topics for student presentation: students may choose from the schedule, but are especially encouraged to negotiate an appropriate topic of their own. In the course of the semester, each student will make one presentation to the group, then revise and write up the material as a paper to be submitted at the end. Such communication and engagement in dialogue is not separate from research in the history of architecture, but integral to it: development of skills in academic writing is a primary learning objective of this course. Regardless of the timing of the presentation, an abstract will be due at four weeks, and a draft at midterm. While the abstract and draft are not graded, they must be submitted in order to receive credit for the course. Also mandatory are individual and small-group research and writing consultations with the instructor, at times to be determined. The grade will be based on the presentation (40%), the paper (50%), and participation in discussions (10%).

**Style:** 20% Lecture, 40% Discussion, 40% Student Presentation.

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

**ARCH 5410 Topics in Architectural History: The Architecture of Minnesota**

A-F only, 3 credit(s); max credits 12, 4 repeats allowed; preq M Arch major or instr consent; Instructor: Sadowski, Leon

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

**ARCH 5410 Topics in Architectural History: American Cultural Landscapes**

A-F only, 3 credit(s); max credits 12, 4 repeats allowed; preq M Arch major or instr consent; Instructor: Iannaccone, Rachel

**Description:** In this course, students will examine American buildings, both monumental and vernacular, within a broad social and cultural context. We will study the relationship between buildings and landscape and consider the ways that politics, money, and culture affect the development of the built environment. Our examination will include corporate, educational, domestic, and leisure landscapes, which we will study through various lenses including race, gender, and class. The course is discussion-oriented with a focus on writing and research. Students will a research paper on a topic of their choice.

**ARCH 5446 Architecture Since World War II: Postwar Experimentation, Aesthetics, and Politics of Architecture**

A-F only, 3 credit(s); preq 3412 or instr consent; Instructor: Bhatt, Ritu

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

**ARCH 5461 North American Indian Architecture**

3 credit(s); preq M Arch major or instr consent; Credit will not be granted if credit has been received for: ARCH 4461; Instructor: Tollefsen, Lee E

**Description:** This lecture/recitation course presents a historic overview, critical overview and introduction to principles and theory of North American Indian Architecture. The course includes the study of the culture, technology, environment, lifestyles, art and craft of North American Indians in relation to their settlements and architecture. The course will view the ten major cultural regions of North American Indians and includes a brief review of the Meso-american influences. The first half of the course focuses on developing an understanding for the cultures and architecture of the North American Indians. This background is essential to allow the more complex topics of the Contempory phenomena and theory to be taught and discussed in the latter half of the quarter. The view of this course is specific from the point of view of an architect examining the history and culture. It provides a unique view and one that will differ in emphasis from a pure historical or anthropological point of view. The material will be contrasted with several Western European theories of Architecture. Major objectives of the course are to instill a curiosity in the Native American Architectural traditions and to open the mind to new points of view on architecture and principles behind the architecture.

**Style:** 80% Lecture, 20% Discussion. Target audience: Juniors and Seniors from Anthropology, American Indian Studies, Undergraduate Architecture Majors (Juniors/Seniors) and Upper Division students from Architecture and Landscape Architecture.

**Grading:** 50% exams; 10% written brief; 40% research paper

**Exam Format:** Typically short answer
ARCH 5711 Design Principles of the Urban Landscape
A-F only, 3 credit(s); prereq BED major or M Arch major or LA grad major or grad student or instr consent;
Instructor: Miller PhD, Nancy A
Description: Student may contact the instructor or department for information.

ARCH 5750 Topics in Urban Design: Contemporary Dutch Housing
A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed; prereq Arch major;
Instructor: Robinson PhD, Julia Williams
Description: Student may contact the instructor or department for information.

ARCH 8250 Advanced Topics in Design: Parallel Play: Design in Education
S-N only, 3 credit(s), max credits 6, 1 repeat allowed; prereq Admitted to 3+ track for MArch prog or instr consent;
Instructor: Comazzi, John Joseph
Description: The premise for this seminar begins with the assertion that design thinking, project-based teaching and active learning environments are critical to nurturing skills for cognitive development and life-long learning. Reflective practices, fashioned through a well-planned design curriculum, can help promote the iterative cycles of planning, doing and reviewing that advance a child's active participation in their own learning and development. Furthermore, design practices, by their very nature, entail collaborative activities that sponsor (if not require) the kinds of social communication skills necessary to engage in problem setting and problem solving in multiple arenas at multiple scales. This project-based model of teaching and learning requires the design of spaces and environments that can best facilitate a child-centered curriculum and stimulate new skills of observation and acquisition through an active engagement with the physical surroundings. In response to these provocations, this seminar will research, analyze and execute design thinking and active learning as variables in the advancement of early child education, project-based curricula and educational environments. In addition to weekly readings and discussions students in this seminar will work directly with educators, architects, local school districts, museums and other institutions of learning as source material in the development of a design-based curriculum to be implemented at a local elementary school. Case studies in philosophies of education, project-based curricula and the designs for active learning environments will also be used in developing a preliminary design proposal for new learning environments at the University of Minneapolis.

Style: 5% Lecture, 15% Discussion, 35% Laboratory. Grading: 20% reports/papers, 50% special projects, 20% in-class presentation, 10% class participation. Percentages subject to change before the term begins. Evaluation will be based on individual / group research presentations and case study analyses. Verbal presentations will be accompanied by written analyses, diagrams, mappings, drawings, etc.

ARCH 8252 Graduate Architectural Design II
A-F only, 6 credit(s); prereq 8251, grad Arch major or instr consent;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

ARCH 8254 Graduate Architectural Design IV
A-F only, 6 credit(s); prereq 8253, grad Arch major or instr consent;
Instructor: Rhodes, Todd James
Description: Student may contact the instructor or department for information.

ARCH 8563 Energy and Indoor Environmental Quality Issues in Sustainable Design
A-F only, 3 credit(s); prereq [5513, [grad MS or MArch]] or instr consent;
Instructor: Greden, Lara Virginia
Description: Student may contact the instructor or department for information.

ARCH 8565 Materials Performance in Sustainable Building
A-F only, 3 credit(s); prereq [5512, grad MS or March] or instr consent;
Instructor: Strong, Richard Bernard
Description: Student may contact the instructor or department for information.

ARTS 1301 Sculpture
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: Winesett, Eric
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 1505 Papermaking
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: Pullman, Jana Lee
Description: Student may contact the instructor or department for information.

ARTS 3101 Intermediate Drawing
4 credit(s); prereq 1001, 1101 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Lyon, Joyce
Description: Objectives: to continue the exploration of the visual and expressive possibilities of drawing begun in ARTS 1101 with the goal of further developing skills and understanding as well as a more personal relationship to drawing. The class will deal with various conceptual approaches to drawing as well as its expressive potential. A major focus will be on the creative process of developing image and ideas through a series of works. A variety of materials will be used, including black and white (charcoal, ink) and color media (pencil, oil pastel). There will be definite assignments and deadlines - important to keep development and adrenaline on track - but also a segment of the class will be run on a workshop basis which implies both greater...
ARTS 3101 Intermediate Drawing
4 credit(s); prereq 1001, 1101 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Ostapchuk, Mark
Description: Students may contact the instructor or department for information.

ARTS 3101 Intermediate Drawing
4 credit(s); prereq 1001, 1101 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Katsiaficas, 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 as an art making tool 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.)? 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: Students 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: Students 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: Students may contact the instructor or department for information.

ARTS 3111 Life Drawing I
4 credit(s); prereq 1001, 1101 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Bussey, Margaret Barten
Description: Focus on the human form with an introduction to anatomy. Exploration of various concepts of representation and methods of image construction. Work from life models, anatomical casts, skeleton, memory and imagination.

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 the 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.

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 1101 Introduction to 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 metal casting 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, 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 3305 Sculpture: Kinetics
4 credit(s); prereq 1001, 1301 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Baldwin, Guy A
Description: Students 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: Larson, Chris Peter
Description: Students may contact the instructor or department for information.

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

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: Pauly, Mary Jo
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.;
Instructor: Holmes, Mimi
Description: This course explores the role of women artists past & present and considers how Western society has constructed the participation of women in the Visual Arts through two perspectives: women as artists and the imagery they have created; and women as the subject of imagery and the attitudes those images convey. The intent of this course is to combine studio art and art historical perspectives in a study of the work of women artists and the portrayal of women in Western art. In addition to slide lectures acquainting students with the work of women artists, we will be revisiting the methods of Feminist Artists of the 1970s by forming groups to create different collaborative projects. COURSE REQUIREMENTS: Because we have only 15 classes, attendance and full participation are very important. All students are expected to attend and participate in each class. Two absences will lower your grade; five or more absences will result in you automatically failing the course. Two lateness/leave earlies will count as one absence. Many students last semester had their grade stepped down once, twice, even three times due to absences. I'm a stickler on this. You being in class, on time, is important to me. Grading: 20% weekly journal (10%), reading notes (5%), discussion participation (5%) 20% self-portrait project, 20% collaborative oral presentation, 20% collaborative art project, 20% Final Project (art work if taking class as a Studio Arts; or paper if taking as an Art History). Style: 30% Lecture, 15% Discussion. Crits of student work; videos on artists. Grading: 15% reports/papers, 20% special projects, 20% in-class presentation, 40% other evaluation. 2 collaborative projects, 2 self-portraits, & Final Project.

ARTS 3420 Visiting Artists Program
S-N only, 1 credit(s), max credits 2; prereq ArtS or instr consent;
Instructor: Lewis, Josephine R
Description: The Visiting Artist Program is a 1 credit, pass/fail course that is partially delivered on WebCT. The requirements for the class are attending the visiting artist lectures throughout the semester (usually 3-5) and posting a 300-500 word response on WebCT. The lectures are always on Thursday nights from 7-9pm in the Regis Center for Art on the West Bank. There will be an informational session at the beginning of the semester. Once you have registered you will receive more detailed information regarding the dates/times of the meetings; all time requirements will be on Thursday evenings.

ARTS 3499 Internship at Katherine E. Nash Gallery
S-N only, 3 credit(s); prereq 1001, instr consent;
Instructor: Shank, Nicholas Bowers
Description: Student may contact the instructor or department for information.

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: Pullman, Jana Lee
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: 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 photolithography, monoprinting, 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 3602 Narrative Digital Video
4 credit(s); prereq 1001W, 1601 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Larson, Jana Beth
Description: Student may contact the instructor or department for information.

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 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 35mm 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: Millikan, 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 Robbins
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: Lane, Thomas J
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 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: An intermediate ceramics hand building course will explore further understanding of the process and the materials, and concerns sculptural formal issues, that would give us chance to examine the relationship between the process and the ideas. The course structure will be demonstrations, slide lecture and discussion in the critiques.

ARTS 5105 Advanced Dimensional Painting
4 credit(s); prereq 3105 or instr consent; 
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: Katsiaficas,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. There will be a 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: Gray,Lynn Arlyn
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: Kuhr,Alexis 
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: Morgan,Clarence E.
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: Grafelman,Glenn Allen
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: Bussey,Margaret Barten
Description: Expressive/technical possibilities of transparent watercolor, for those new to the medium and for those with previous watercolor experience. Emphasizes pictorial structure, color relationships, visual expression. Work from still life, nature, life model, imagination.

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.

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 tutoria; 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.
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.
Exam Format: Final critique of sculpture produced

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: Baldwin,Guy A
Description: Student may contact the instructor or department for information.
Description: Student may contact the instructor or department for information.

ARTS 5360 Advanced Performance Art and Installation
3 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: Larson, Chris Peter
Description: Student may contact the instructor or department for information.

ARTS 5400 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: Sugnet, Anne Elizabeth
Description: Student may contact the instructor or department for information.

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: Rothermel, Jeff A
Description: Student may contact the instructor or department for information.

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: Paul, Mary Jo
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.; Credit will not be granted if credit has been received for: ARTS 3403; Meets CLE req of Cultural Diversity Theme;
Instructor: Holmes, Mimi
Description: This course explores the role of women artists past & present and considers how Western society has constructed the participation of women in the Visual Arts through two perspectives: women as artists and the imagery they have created; and women as the subject of imagery and the attitudes those images convey. The intent of this course is to combine studio arts and art historical perspectives in a study of the work of women artists and the portrayal of women in Western art. In addition to slide lectures acquainting students with the work of women artists, we will be revisiting the methods of Feminist Artists of the 1970s by forming groups to create different collaborative projects. COURSE REQUIREMENTS: Because we have only 15 classes, attendance and full participation are very important. All students are expected to attend and participate in each class. Two absences will lower your grade; five or more absences will result in you automatically failing the course. Two lateness/leave early will count as one absence. Many students last semester had their grade stepped down once, twice, even three times due to absences. I’m a stickler on this. You being in class, on time, is important to me. Grading: 20% weekly journal (12.5%), reading notes (2.5%), discussion participation (5%), 20% self-portrait project 20% collaborative oral presentation 20% collaborative art project 20% Final Project (art work if taking class as a Studio Arts; or paper if taking as an Art History). 5403 students write an additional paper on a local woman artist.
Style: 30% Lecture, 15% Discussion. Crits of student work; videos on artists
Grading: 15% reports/papers, 20% special projects, 20% in-class presentation, 5% class participation, 40% other evaluation. 2 collaborative projects, 2 self-portraits, & Final Project

ARTS 5441 Professional Practices
3 credit(s); prereq Grad or instr consent;

Instructor: Kosmalski, Suzanne
Description: Class will attend all visiting artist events on Thursday evenings in the Regis Center for Art. Topics will include: --Creating a professional curriculum vitae and exhibition resume --Creating a packet/book/CD of artist materials for galleries and exhibition opportunities --Writing artist statement for grants, galleries --Creating an individual web presence --Creating a presence on a Minnesota; New York- and London-based Artist Registry --Writing a proposal for an exhibition or grant of your choice from opportunities presented in class or your research --Meeting curators, gallerists from the local community including the Walker Art Center; and Doryun Chug, co-curator of Brave New Worlds --Visiting artist(s) from Minnesota who are showing work outside the region --The nuts and bolts of money--and making a living as an artist

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prereq BFA candidate, sr, instr consent;
Instructor: Pharis, Mark W
Description: Student may contact the instructor or department for information.

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

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

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prereq BFA candidate, sr, instr consent;
ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prereq BFA candidate, sr, instr consent;
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); prereq BFA candidate, sr, instr consent;
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); prereq BFA candidate, sr, instr consent;
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); prereq BFA candidate, sr, instr consent;
Instructor: Gray, Lynn Arlyn
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prereq BFA candidate, sr, instr consent;
Instructor: Hallman, Gary L
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prereq BFA candidate, sr, instr consent;
Instructor: Hoard, Curtis C
Description: Student may contact the instructor or department for information.

ARTS 5444 Bachelor of Fine Arts Exhibition
S-N only, 1 credit(s); prereq BFA candidate, sr, instr consent;
Instructor: Potratz, 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); prereq BFA candidate, sr, instr consent;
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); prereq BFA candidate, sr, instr consent;
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); prereq BFA candidate, sr, instr consent;
Instructor: Estep, Jan
Description: Student may contact the instructor or department for information.

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

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 5550 Advanced Papermaking
4 credit(s), max credits 12, 4 repeats allowed; prereq 3505 or instr consent
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Pullman, Jana Lee
Description: Student may contact the instructor or department for information.

ARTS 5620 Narrative Digital Video
4 credit(s), max credits 12, 3 repeats allowed; prereq 3602
Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Larson, Jana Beth
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 5670 Interdisciplinary Media Collaborations
3 credit(s), max credits 9, 3 repeats allowed; prereq Upper-division undergraduate or graduate student in art, creative writing, dance, music or theater.;
Instructor: Geers, Doug
Description: The course investigates questions of time and time-perception as they pertain to the arts in general and to performance arts in particular. We draw on research and theoretical writing form cognitive and experimental psychology, philosophy, music theory and modern physics to study formal
cceptions of the human experience of time. The bulk of the course will revolve around the study of a selected number of works of music, dance, theater, video, installations and film; works outside of film and cinema are emphasized.

ARTS 5701 Performed Photography: Documentation of Artistic Acts and Social Interventions
4 credit(s); prereq Two 3xxx [photography or video] courses;
Instructor: Estep, Jan
Description: This studio course focuses on the use of the camera and other image-based media to document various artistic, site-specific acts that might otherwise go unnoticed. It investigates the relationship between the original event (performance, social intervention, sculptural prop, ephemeral gesture) and the memory trace left behind in its image/record. This is an informed studio course, with emphasis on seminar-style discussion of readings, ideas, artists, and group critiques. Directed artistic assignments target specific points about this way of working. Art historical issues include Body Art, Performance Art, Conceptual Art, and Landscape Art. Broader issues include the relationship between art and life, private and public realms, subject and image, performer and viewer, and object and intent. Although we will focus on photography, students can work in a range of media to record their assignments (audio, video, drawing, text, installation as well as photography). Open to graduate and undergraduate students.
Style: Class is structured around slide/video presentations of relevant artists’ work, theoretical readings, art assignments that involve participation in front of as well as behind the camera, and group critique.

ARTS 5710 Advanced Photography
4 credit(s), max credits 12, 4 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: Estep, Jan
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: Lane, Thomas J
Description: Student may contact the instructor or department for information.

ARTS 5821 Ceramic Materials Analysis
4 credit(s); prereq 3801 or 3802 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Bohls, Margaret
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, instr consent;
Instructor: Pharish, 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, 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, instr consent;
Instructor: Lukkas, Lynn Tjerman
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, instr consent;
Instructor: Larson, Chris Peter
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, 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, 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, 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, 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, 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, instr consent;
Instructor: Lane, Thomas J
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, instr consent;
Instructor: Gray, Lynn Arlyn
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, instr consent;
Instructor: Hallman, Gary 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, instr consent;
ARTS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 4 repeats allowed; prereq major, instr consent;
Instructor: Krepps, Jerald A
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, instr consent;
Instructor: Kuhr, Alexis
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, instr consent;
Instructor: Estep, Jan
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, instr consent;
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, instr consent;
Instructor: Willow, 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, 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, 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, instr consent;
Instructor: Momenci, Ali
Description: Student may contact the instructor or department for information.

ARTS 8100 Drawing and Painting: Theory and Practice
3 credit(s), max credits 12, 4 repeats allowed; prereq Art MFA student;
Instructor: Baeumler, Christine Arle
Description: Student may contact the instructor or department for information.

ARTS 8300 Sculpture: Theory and Analysis
3 credit(s), max credits 6;
Instructor: Potratz, Wayne E
Description: The Edge of the Other. As schooled and trained artists we strive for a certain professionalism in our work, our attitudes towards art, and in our careers. If we represent the ?center? or the ?core? of art, what is going on at the edge of art that may be instructive or inspiring? The seminar will look at peripheral activities such as Outsider Art, Roadside Art, Art from the mentally disabled or challenged, graffiti, tattoos, and other activities at the edge of art through readings, field trips, sculpture projects, and other activities.
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: Feinberg, David L
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: Gray, Lynn Arlyn
Description: Student may contact the instructor or department for information.

ARTS 8420 Seminar: Visiting Artists Program
2 credit(s), max credits 4; 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: Willow, Diane
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 8700 Photography: Theory and Practice
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Hallman, Gary L
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: Estep, Jan
Description: Contemporary issues in the production of photographic images. Generally restricted to graduate students in the Department of Art MFA program. Please contact instructor for permission to register for this course.

ARTS 8800 Ceramics: Theory and Practice
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Lane, Thomas J
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: Lyron, 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: Lukkas, Lynn Tjernan
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: Feinberg, David L
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: Morgan, Clarence 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: Katsiaficas, Diane
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: Henkel, James V
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: Rose, Thomas Albert
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: Lane, Thomas J
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: Hallman, Gary L
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: Hoard, Curtis C
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: Krepp, 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: Kuhr, 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**
- 1-9 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**
- 1-9 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**
- 1-9 credit(s), max credits 18, 18 repeats allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
- Instructor: Stanislav, Andrea
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: Schmid, Jenny
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: Momeni, Ali
Description: Student may contact the instructor or department for information.
ARTH 1001 Introduction to Art History
3 credit(s), max credits 4, 1 repeat allowed; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Eliason, Lois Munemitsu
Description: This course is designed for any undergraduate with an interest in American art and culture. It does not require a background in describing and analyzing works of art. The course looks at American painting, sculpture, architecture, and the decorative arts from the point of view of the cultures and periods that produced them. Why are Early American meeting houses square? Why did Americans of the Age of Jackson love landscapes? Why did Andy Warhol paint Elvis and cans of soup? How are all of these works of art relevant to the world in which we live today? An overall survey of America’s artistic heritage, this course is also a good introduction to the major periods and issues in American history.
Style: 90% Lecture, 10% Discussion.
Grading: 20% mid exam, 40% reports/papers, 40% quizzes.
Exam Format: slides, brief essays

ARTH 3008 History of Ancient Art
4 credit(s);
Instructor: Cooper, Frederick A
Description: This course will introduce you to the diverse ways art, the politics of early modern art in Europe, and art’s subservience to the Church and the royal court.
Style: 80% Lecture, 20% Discussion.
Grading: 35% 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: This course looks at the extraordinary range of visual material produced in the Indian subcontinent, ranging from the magnificent cities of the Harappan culture, probably the most advanced anywhere in the world at their time, to the works illustrating Buddhist narratives for residents of monasteries in the homeland of Buddhism. It looks at the conception of extraordinary Hindu temples to the magnificent Islamic structures of the Indian subcontinent. And it considers the role of manuscript painting as well as the works produced under British colonial domination and during independent India as well as Bollywood cinema. Finally, the course considers the art of India beyond the Indian subcontinent, that is, as part of the global Indian Diaspora. There will be two papers, one a short paper on a film, the other a research paper that takes advantage of the unparalleled library resources at the University of Minnesota, a two exams, and a final exam. Weekly sections offer the opportunity to discuss issues that the visual material presents.
ARTH 3017 Islamic Culture
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Mc Nally, Sheila J
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 for the basis for understanding diverse cultural developments.
Style: 60% Lecture, 15% Film/Video, 15% Discussion, 10% Small Group Activities.
Grading: 30% final exam, 30% reports/papers, 40% quizzes.

ARTH 3035 Classical Myth in Western Art
4 credit(s); Credit will not be granted if credit has been received for: CNES 3035; Meets CLE req of Other Humanities Core;
Instructor: Ostrow, Steven F
Description: In this class we look at selected figures and events from classical mythology as ancient artists first depicted them and as they have reappeared in later Western art. Three characteristics of myth challenge artists: (1) myths arise out of concern with the world around us, and refusal to accept its limitations; (2) myths tell stories; (3) myths involve tradition. We therefore look at how artists expand everyday experience, reveal characters through action, and rework tradition. Workload: Reading in course packets, about 15 pages a week. Course focuses on images, so attendance at discussion of slides in class is very important. Three quizzes, each divided between "objective" questions and short written discussion, and a longer prepared essay. Two projects, each with an individual written portion and a group portion. Class is organized to include both group and individual work making use of VISTA. Fuller information on all parts of the course are available through VISTA. Registered students can access them using email passwords.
Grading: 30% final exam, 40% reports/papers, 30% quizzes.
Exam Format: Discussion of Images

ARTH 3311 Baroque Art in Seventeenth Century Europe
3 credit(s);
Instructor: Ostrow, Steven F
Description: This course examines the dominant trends and figures of the Italian, French, Spanish, Flemish, and Dutch Baroque period. We will explore the works of major masters including Caravaggio, Bernini, Poussin, Velazquez, Rembrandt, and Rubens, as well as such issues as the development of illusionistic ceiling decoration, the theoretical basis of Baroque art, the politics of early modern art in Europe, and art's subservience to the Church and the royal court.
Style: 80% Lecture, 20% Discussion.
Grading: 35% mid exam, 35% final exam, 20% reports/papers, 10% attendance.
Exam Format: Slide identifications and comparisons; short essays

ARTH 3315 The Age of Curiosity: Art and Knowledge in Europe, 1500-1800.
3 credit(s);
Instructor: Shank, JB
Description: 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 (van Eyck, da Vinci, 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. In this way the course will cut across the famous "two cultures" divide that allegedly divides the arts and humanities from the sciences by exploring the interpenetration of art and science in Europe at their moment of initial modernization."

**ARTH 3401 Art Now**  
**A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; Instructor: Blocker, Jane M**  
**Description:** This course will analyze visual representations in the fine arts and popular media, in the context of contemporary social issues. Topics covered include obscenity and gender, censorship, art and democracy, technology, art and commerce, the representation of race, the museum, propaganda, and the social role of the artist. A major goal for this course will be to understand the contemporary world through the analysis of dominant cultural values as they are manifested in art. It will be web enhanced but URL not available yet.  
**Style:** 70% Lecture, 30% Discussion.  
**Grading:** 50% reports/papers, 20% quizzes, 30% class participation.  
**Exam Format:** essay

**ARTH 3484 The Art of Picasso and the Modern Movement**  
**4 credit(s); Instructor: Weisberg, Gabriel**  
**Description:** Works of Picasso in all media, Blue, Rose, Cubist, Classical, and later periods of Picasso’s development against innovations in media; collage, utilization of found-objects, printmaking and ceramics. Autobiographical nature of imagery gives methodological basis for exploring frequently personalized themes. A term paper, based on a close reading of Picasso works in a Minneapolis based collection, and employing a clear methodological emphasis derived from the course, will be stressed. Course Requirements: Mid-term, Final Exam and a Term Paper.

**ARTH 3921W Art of the Film**  
**4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; 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 video/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 3940 Topics in Art History: Art and Collaboration**  
**3 credit(s), max credits 12, 12 repeats allowed; Instructor: Mullin, Diane A**  
**Description:** Student may contact the instructor or department for information.

**ARTH 3940 Topics in Art History: East/West, West/East**  
**3 credit(s), max credits 12, 12 repeats allowed; 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: 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: 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: McNally, 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: 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: 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: 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: 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: 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: 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: 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: 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: McNally, 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.

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ARTH 5112 Archaic and Classical Greek Art
3 credit(s); prerequisite Jr, Clas/ArtH 5111;
Instructor: Berlin, Andrea
Description: In this course we study the development and transformation of artistic production in Greece from the 8th through the 4th centuries B.C.E. Sculpture evolves from simple, schematic figurines to life-size marble sculpture; painting moves from small, silhouetted figures to the complex refinements of black and red figure vases. As artists learn to convey every variety of human action and emotion, art itself takes on a new communicative role in Greek society. In-class discussions will address topics such as the relationship between literacy and pictorial representation, the meaning of life-size human sculpture, usage of painted pottery, the message of architectural sculpture, the political function of art, changes in funerary sculpture, and the intersection of high art and daily life.

ARTH 5302 Print Culture in Early Modern Europe
A-F only, 3 credit(s);
Instructor: Gaudio, Michael P
Description: The technology of mechanically reproducing complex visual images on paper, a development of fifteenth-century Europe, transformed the early modern world no less than the emergence of digital media has transformed our own. This course investigates the cultural history of printed images in Europe from the time of their emergence in the fifteenth century through the mid-eighteenth century. Students will develop a familiarity with the technical aspects of printmaking and apply that understanding to the historical interpretation of specific works. The course will not be an exhaustive survey of printmakers and printmaking styles during the early modern era but will instead approach the early modern print through the changing cultural circumstances of its production and reception. Topics include: devotional prints, book illustration, reproductive printmaking, virtuosity in printmaking, prints and the production of scientific knowledge, social networks within early modern print culture, and the role played by print culture in major social and political events such as the Protestant Reformation. While the course will consider the work of many lesser-known (and anonymous) artists, it will concentrate on the work of major printmakers such as Durer, Mantegna, Goltzius, Rembrandt, Callot, Hogarth, and Piranesi. Course includes visits to local collections. For advanced undergraduates and graduate students.
Style: 60% Lecture, 40% Discussion.
Grading: 25% mid exam, 35% final exam, 30% reports/papers, 10% class participation.

ARTH 5546 American Architecture: 1840 to 1914
3 credit(s);
Instructor: Archer, John
Description: As the title suggests, this course covers American architecture in the period from 1840 to the First World War. A variety of perspectives and methodologies are introduced and employed (biographical and stylistic analysis, gender studies, etc.), while the course remains centered on the premise that architecture is a social instrument, articulating political structures, economic relations, and ideologies. The course approaches American architecture by examining the entire built environment rather than just facades. This requires attention to more than names, dates, and styles: we will examine interior plans and furnishings, landscapes and parks, city planning, the rise of suburbia, ideological concerns in a ‘moral’ household environment, gender differences, political power, class stratification, accumulation of capital, the aestheticization of nature, and other related considerations.
Style: 95% Lecture, 5% Discussion.
Grading: 25% mid exam, 30% final exam, 35% reports/papers. A paper prospectus, submitted prior to doing the research paper, counts 10%.
Exam Format: Essay

ARTH 5767 Japanese Painting
3 credit(s);
Instructor: Poor, Robert John
Description: This course will offer a selective examination of the paintings and prints produced in Japan from the Neolithic era down to modern times. Every major type of Japanese pictorial art is represented in this introductory survey and upon successful completion of this course the students will be conversant with the general development of the painterly arts in Japan. There is no art history prerequisite and no knowledge of the Japanese language is required. Open to Juniors, Seniors, and Graduate students. The lectures will proceed along chronological lines with special attention given to individual schools, religious sects or special themes such as depictions of Life at Court, Zen Buddhist art, and the World of Entertainment (Ukiyo-e) as exemplified by the ever popular wood-block print that captured the hearts of Vincent van Gogh and generations of western audiences. Finally, we will make a brief foray into contemporary Japanese painting in its global setting. The primary ‘text’ for the course will consist of the objects themselves as illustrated in the lectures and by original works of art in local museums and private collections. We will examine original works of art whenever possible and have scheduled field-trips to view the world renown collection of Japanese Art at the Minneapolis Institute of Arts on February 12 and April 8.
Grading: 33% mid exam, 33% final exam, 33% reports/papers.

ARTH 5776 Redefining Tradition: Indian Art, 400 to 1300
3 credit(s);
Instructor: Asher, Frederick M
Description: This course examines India’s art and architecture from the time of the earliest free-standing temples, that is, about 400, through the thirteenth century, focusing on temples and their associated sculpture but including also mural painting and the beginnings of Islamic architecture in India. The course will be largely lectures but with ample time for and encouragement of discussion. The background of students in the course will range from art history majors to those without prior exposure to either India or the study of art history. The course will be web enhanced but the URL is not yet available.
Style: 60% Lecture, 40% Discussion.
Grading: 25% mid exam, 35% final exam, 40% reports/papers.
Exam Format: essay

ARTH 5777 The Diversity of Traditions: Indian Art 1200 to Present
3 credit(s);
Instructor: Asher, Catherine B
Description: This course will consider the development of Indian art and architecture from the introduction of Islam as a major political power at the end of the 12th century to the present. The Muslim rulers brought new traditions, for example, the tomb, of which the most famous example is the Taj Mahal built in the mid-17th century. We will study the developments leading to this magnificent structure as well as the schools of painting that are the products of Muslim and Hindu rulers. The course will also consider artistic production in the important Hindu, Sikh and Christian kingdoms that ruled India concurrently with the great Muslim powers. In the 18th century, colonial forces entered the Indian subcontinent, resulting in significant innovative artistic trends. We will discuss these as well as the subsequent nationalist schools that develop just before Independence prior to 1947. We will probe which forms and ideas seem to be inherently Indian, asking which ones transcend dynastic, geographic and religious differences and which forms and ideas are consistent throughout these periods of political and ideological change. This class will be a combination of lecture and discussion. Undergraduates will write a 8-10 page research paper; graduate students should see the instructor for requirements. Images will be available on the Visual Resource Center.
Style: 70% Lecture, 30% Discussion.
Grading: 88% reports/papers, 12% class participation.
Exam Format: take home essays

ARTH 5950 Topics: Art History: Visual & Material Culture of Popular Music
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Sheehy, Colleen J
Description: Student may contact the instructor or department for more information.

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for information.

ARTH 5950 Topics: Art History: East/West, West/East
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Weisberg, Gabriel
Description: Student may contact the instructor or department for information.

ARTH 5950 Topics: Art History: East/West, West/East
3 credit(s), max credits 9, 3 repeats allowed;
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;
Instructor: Asher, Catherine 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;
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;
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;
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;
Instructor: Blocker, Jane 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;
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;
Instructor: Ostrow, Steven F
Description: Student may contact the instructor or department for information.

ARTH 8120 Computer Applications in Art History and Archaeology
3 credit(s);
Instructor: Blocker, Jane M
Description: Student may contact the instructor or department for information.

ARTH 8520 Seminar: American Art and Material Culture
3 credit(s), max credits 12, 4 repeats allowed; prereq instr consent
Instructor: Marling, Karal Ann Rose
Description: THE ARCHITECTURE OF PLEASURE. This seminar will examine buildings and environments created especially for enjoyment, beginning with the pleasure gardens of Europe, the modern-day concept of architourism, virtual tourism, and the major pleasure sites of modern-day America, from the Disney Theme Parks to Las Vegas and the mall. This is the particular specialty of the professor?and her last seminar at the U. Undergrads who have studied related topics are welcome to join the class with approval. Graduate students in many disciplines?Art History, Theater (stagecraft), English (Romanticism), Architecture and Landscape Architecture, Geography, and others?may also derive benefit from this material.
Style: 70% Discussion, 30% Student Presentation.
Grading: 70% reports/papers, 30% class participation.

ARTH 8950 Seminar: Issues in the History of Art: Atlantic Worlds: Art & Globalization from Columbus to NAFTA
3 credit(s), max credits 12, 4 repeats allowed; prereq 3 cr art history, instr consent
Instructor: Blocker, Jane M
Description: “Atlantic Worlds: Art and Globalization from Columbus to NAFTA” focuses upon the Atlantic, which from the time of Columbus to contemporary globalization has functioned as a site for the fluid passage of peoples, images, and goods. The seminar will explore artistic production within this rich and complex space. Using a series of critical texts from the fields of early modern history, contemporary art, and globalization theory, we will consider how artists have responded to such issues as: slavery and the slave trade, as well as race and free trade; first contact and exchange with indigenous cultures, as well as the current role of the indigenous within the global art market; and the formation of empire in tandem with the development of the modern nation state.

AAS 3001 Contemporary Perspectives on Asian America
3 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Fajardo, Kale Bantigue
Description: Where are Asian Americans located locally, regionally, nationally, and globally? Does geographic location make a difference in how Asian Americans understand and experience their identities and communities? How do different places and the politics in these places (for example, Asia, U.S. west coast, U.S. Midwest, New York, Hawaii, Caribbean) affect Asian/Asian American experiences, identities and communities? This course focuses on different sites in Asian America to better understand the complexity, beauty, and problems of Asian America. Key questions for the course include: How do Asians/Asian Americans in diverse geographic locations

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experience, historicize, politicize, visualize, and/or imagine themselves and their communities in the context of the U.S., Asian America, and beyond? Who, what, where, when, and how is Asian America? What are the cultural politics of space, place, and movement in Asian America? How do these issues play out in Minnesota/Twin Cities? Participants in this course will seriously explore and engage these questions and themes by reading theory, literature, film, and art and working on a group research project about an Asian American space, place, or movement in the Twin Cities.

Style: 30% Lecture, 30% Film/Video, 40% Discussion.
Grading: 40% reports/papers, 40% class participation, 20% other evaluation. Final Project

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 interest in working with other Asian American communities can also be arranged.

Style: 30% Lecture, 70% Discussion.
Grading: 40% reports/papers, 30% class participation, 30% other evaluation. volunteer
Exam Format: no exam

AAS 4231 The Color of Public Policy: African Americans, American Indians, and Chicanos in the United States
3 credit(s); Credit will not be granted if credit has been received for: AFRO 4231;
Instructor: Brewer,Rose Marie
Description: This course is designed to familiarize students with the history of U.S. public policy development and social relations across racial-ethnic-nation cultures. The focus will be on the United States, but recent developments from the global context will be incorporated for comparative purposes. In this course we will examine the structural and institutional conditions through which people of color have been systematically marginalized, and how diverse populations have fought for and won or lost policy change. The course will help students better understand and interpret the "dominant paradigm" in which public policy has been set. Then, we will examine how and why this paradigm has shifted over time, and what the current prospects are for policy transformation in the domestic and global arenas.

Style: 20% Lecture, 40% Discussion. community research
Grading: 20% final exam, 30% reports/papers, 20% class participation, 30% other evaluation. community research
Exam Format: take-home

AAS 4311 Asian American Literature and Drama
A-F only, 3 credit(s);
Instructor: Lee,Josephine D
Description: This course focuses on the literary and theatrical contributions of American artists of Asian descent. Through these novels, memoirs, poetry, stories, and plays, we can understand the particular connections between literary form, expression, and production and the social formations of race, ethnicity, nationalism, class, gender, and sexuality. Asian Americans come from a diverse range of national and cultural backgrounds; likewise their literature and drama presents many different perspectives and experiences. This course will not attempt a survey of these works; rather our readings and discussions will reflect particular preoccupations that regularly surface in these works. These include migration (and its accompanying states of disorientation and acts of reinvention), racism and stereotypes, the ?road trip,? and redefining home. We?ll pay special attention to Asian American experiences in Minnesota and other parts of the Midwest. This course satisfies the core requirement for the Asian American Studies minor as well as elective requirements for the English major and minor.

AAS 4920 Topics in Asian American Studies: War & Imperialism in Asian Amer & Pacific Worlds
3 credit(s), max credits 8;
Instructor: Onishi,Yuichiro
Description: How have a series of U.S. wars and imperial adventures in Asia-Pacific since the turn of the twentieth century shaped the identities and communities of Asians, Asian Americans, and Pacific Islanders? In addition to covering the periods during which the United States was militarily at war with the Philippines, Japan, Korea, and Vietnam, this course explores European and U.S. colonialism in Hawaii, the preeminence of U.S. military bases in Okinawa and South Korea, resettlement among war refugees from Southeast Asia in the United States, and the workings of racialization and imperial politics in Asian American communities after 9/11. We are particularly interested in examining the reach of war and cultures of militarism in Asian American and Pacific Worlds. Among the topics examined are the nexus between race and war; memories of war; military violence against women; the experiences of 'military brides'; questions of sovereignty, and strategies of demilitarization and anti-imperialist resistance. Since this course is conceived as a reading-intensive seminar, one of the requirements is that each student leads and facilitates a class discussion twice during the semester in pairs. Students who are interested in the comparative and global study of race and ethnicity, ideas of indigeneity, Gender, Women, and Sexuality Studies, Asian American Studies, American Studies, and U.S. foreign relations are encouraged to take this class.

Style: 30% Lecture, 70% Discussion.
Grading: 70% reports/papers, 20% in-class presentation, 10% class participation.

AAS 5920 Topics in Asian American Studies
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Onishi,Yuichiro
Description: Student may contact the instructor or department for information.

ALL 3001 Reading Asian Cultures
A-F only, 3 credit(s);
Instructor: Rouzer,Paul F
Description: Student may contact the instructor or department for information.

ALL 3371 History of Chinese Cities and Urban Life
A-F only, 3 credit(s);
Instructor: Wang,Liping
Description: Student may contact the instructor or department for information.
ALL 3373 Religion and Society in Imperial China
3 credit(s); Credit will not be granted if credit has been received for: HIST 3466; Meets CLE req of Historical Perspective Core;
Instructor: Walnter,Ann Beth
Description: This course will examine the varieties of religious experience in imperial China. It will examine religion as lived practices as well as textual traditions. We will look at Buddhism, Daoism, and Confucianism as well as the relations among them. We will also look briefly at the western missionary enterprise in China, particularly at ways in which the western presence throws certain aspects of Chinese religion into sharp relief. We will pay particular attention to the material culture of Chinese religion, through videos, through visits to the Minneapolis Institute of Arts, and through visits to local temples. We will be attentive to the historical development of Chinese religions. The class will be a mixture of lecture and discussion. As much as possible, class activities will focus on a close reading of primary texts.
Style: 45% Lecture, 35% Discussion, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers. Students will be required to make a field trip either to the Minneapolis Institute of Arts or a local Asian temple.
Grading: 20% mid exam, 30% final exam, 15% reports/papers, 5% attendance, 20% reflection paper, 10% class participation. These percentages are subject to slight revision.
Exam Format: You will be asked to identify and give the significance of key terms. You will also be asked to write essays.

ALL 3436 Postwar Japanese Literature in Translation
3 credit(s); prereq Basic knowledge of modern Japanese history helpful, knowledge of Japanese language not required credit will not be granted if credit received for: Jpn 3164;
Instructor: Johnson,Jeffrey Richard
Description: Student may contact the instructor or department for information.

ALL 3456 Japanese Film
3 credit(s); prereq credit will not be granted if credit received for: Jpn 3166; Meets CLE req of Other Humanities Core;
Instructor: Anderson,Mark
Description: In this course we will survey the common themes, styles, and genres of Japanese cinema through work of both popular and classic directors (Kurosawa, Mizoguchi, and Ozu). Genres covered will include early melodrama, period films featuring samurai, and comedy. We will also screen at least two anime near the end of the course. Depictions of gender and class relations will be a particular and ongoing concern.

ALL 3637W Modern South Asian Literature
A-F only, 3 credit(s); Meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Sawhney,Simona
Description: This course will ask the following broad question: how does studying South Asian literature affect the way we think about South Asia on the one hand, and literature on the other? Our premise will be that South Asian literature is not simply a “resource” of knowledge about South Asian culture or politics, but is also a body of literary texts, shaped by literary conventions and histories, and sometimes by a radical questioning of conventions. The literary texts chosen for study are all “about” South Asia in some way, but not all of them are written by South Asian writers. The course will address the following topics: what is “modern” about modern South Asian literature? What are the various ways in which we may understand modernity, particularly in this context? What is “South Asian” about South Asian literature? Are there certain concerns, themes, literary motifs, or narrative styles that recur in this body of texts, or is this simply a convenient term to designate these texts? What kinds of literary debates have taken place in South Asia over the past century, and how do those debates relate to colonialism, neo-colonialism and globalization? The reading list will include work by Tagore, Mulk Raj Anand, E. M. Forster, Premchand, Abraham Husseini and Shyam Selvadurai. This course fulfills the Writing Intensive and the Literature Core requirements.
Style: 50% Lecture, 50% Discussion.

ALL 3900 Topics in Asian Literature: Making Women in Korean Literature and Film
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Lee,Ji-Eun
Description: ALL 3900 Making Women in Korean Literature and Film This course examines literary and cultural renderings of women and gender in Korean literature and film. We will explore various representations of gender in literature and film and also examine literature and film as sites for the very construction of gender. Some of the questions we will discuss are: What is “feminine” and “masculine” in Korean culture? How do these formations relate to literary and cinematic portraits of gender on one hand, and to gendered conceptions of literature and cinema on the other? How do constructions of gender and women in literature relate or compare to those found in Korean cinema? Why tell stories through female or male character(s)? While the class aims at understanding women's issues in contemporary Korea, it will also set these in the context of historical development. Readings therefore include “feminine” voices of “New Women” and socialist women writers from the Colonial period (1910-1945), and historical and literary writings from the Choson Dynasty (1392-1910). All readings are in English.

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

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

ALL 5358 Chinese Revolutionary Cinema
3 credit(s);
Instructor: McGrath,Jason
Description: Student may contact the instructor or department for information.

ALL 5436 Literature by 20th-Century Japanese Women in Translation
3 credit(s);
Instructor: Marran,Christine L
Description: Student may contact the instructor or department for information.

ALL 5477 Kurosawa, Masculinity, and Cold War
3 credit(s), max credits 9, 3 repeats allowed; prereq Advanced undergrad or grad student;
Instructor: Anderson,Mark
Description: This course will examine Akira Kurosawa's work as a film director with special emphasis on revising dominant interpretations of Japanese film and masculinity in the context of the Japanese empire before 1945 and the Cold War after 1945. We will situate Kurosawa’s films in the history of Japanese film and culture in which they were produced and examine their own influence in both Japan and abroad. Students will be introduced to film theory, gender theory, and modern Japanese and international history in the course of exploring contested aspects of Japanese culture, class, social agency, and gender coding.
Style: 50% Lecture, 50% Discussion.
Grading: 20% reports/papers, 40% quizzes, 30% in-class presentation, 10% class participation.
Exam Format: There are no exams. Quizzes will be in short essay format.

ALL 5990 Directed Study
1-4 credit(s), max credits 16, 4 repeats allowed; prereq instr consent, dept consent, college consent;

This information is accurate as of 9/15/2008 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 5990 Directed Study
1-4 credit(s), max credits 16, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Allen, Joseph R
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 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: Student may contact the instructor or department for information.

ALL 8001 Critical Approaches to Asian Literary and Cultural Studies
A-F only, 3 credit(s);
Instructor: Sawhney, Simona
Description: Basic Seminar in German Studies/Critical Approaches to Asian Literary and Cultural Studies This year, this course is designed as an introductory seminar for beginning graduate students in both the Department of Asian Languages and Literatures and the Department of German, Scandinavian and Dutch. It arises thus from a sense that area studies designators and the boundaries they mark may be fundamentally insufficient when our explicit concern is with understanding the differences between theoretical approaches to literature, history, and culture. If we take such approaches as being both methodological and political?as marking precisely the relation between the methodological and the political?then it would seem that only by exposing diverse areas to one another, exposing, for example, "European" to "Asian" studies (certainly not an accidental example), can we attempt to gauge today what may be at stake in different "methods of thinking". Our aim is not to stage what may in the end become rather predictable "encounters" between the colonizer and the colonized, the center and the margin, "philosophy" and "politics," or even idealism and materialism. Instead, it is to pay attention to some of the most significant thinkers of the modern world, whose work continues to influence and challenge contemporary writing in the humanities and the social sciences. In each case, we will attempt to read slowly and carefully, as we study the conceptual machine assembled by these texts. Texts and authors include: Hegel, Phenomenology of Spirit (sel.); Marx, German Ideology (sel.); Nietzsche, Birth of Tragedy, ?On Truth and Lie in an Extra-Moral Sense?; Freud, Interpretation of Dreams, Moses and Monotheism (sel.); Derrida, Speech and Phenomena, On Grammatology (sel.); de Man, Allegories of Reading (sel.); Heidegger, ?Letter on Humanism,? ?The Time of the World-Image?; Said, Freud and the Non-European: Guha, History at the Limit of World History (sel.); Takeuchi, What is Modernity (sel.); Spivak, selected essays.

AST 1905 Freshman Seminar: Cosmic Catastrophes
2 credit(s), max credits 3, 1 repeat allowed; prereq freshman
Instructor: Rudnick, Lawrence
Description: Student may contact the instructor or department for information.

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.

AST 2001 Introduction to Astrophysics
4 credit(s); prereq [One yr calculus, PHYS 1302] or instr consent;
Instructor: Davidson, Kris
Description: We emphasize the "physics" part of astrophysics - the processes that determine behavior of astronomical objects in a very general way. We survey elementary orbital mechanics, photon physics, atomic physics, etc. We explore how these topics determine WHY the universe is as it is - how they constrain the basic natures of planets and solar-system objects, stars, interstellar matter, galaxies, and cosmology. It could almost be called &quot;astrophysical engineering&quot;...
Course is intended mainly for undergraduates who are interested in astronomy, but also in how or why things behave as they do, the &quot;why&quot; mentioned above. A good first-year university physics course should be adequate background but in some cases we examine the topics from unusual viewpoints. The math level does not exceed first-year calculus, apart from one or two exceptions that will be explained in class if they arise.
Instead of quoting exact formulae, we aim to understand the topic more broadly through analogies, proportionality relations, dimensional analysis, and symmetry arguments. Lectures, special handout notes, and notes in the homework problems are extremely important in this course.
Style: 92% Lecture, 4% Discussion. mid-semester exams intended to be instructive
Grading: 35% mid exam, 30% final exam, 35% other evaluation.
Homework problems
Exam Format: Almost entirely brief problems. Occasionally small sets of multiple-choice

AST 4002 Astrophysics II
A-F only, 4 credit(s); prereq 2001, Phys 2601;
Instructor: Williams, Liliya L R
Description: Galaxies, structure and evolution, active galaxies. Clusters of galaxies, introductory cosmology.
Style: 30% Lecture, 50% Discussion. student-led presentations and homework discussions
Grading: 20% reports/papers, 15% in-class presentation, 50% class participation, 15% problem solving.

AST 5012 The Interstellar Medium
4 credit(s); prereq 2001, Phys 2601 or instr consent;
Instructor: Jones, Terry J
Description: Introduction to the Interstellar Medium. Subjects include radiation, heating and cooling of interstellar material, molecular clouds and interstellar dust. Star formation will be the theme that links these subjects together.
Style: 80% Lecture, 20% Discussion.
Grading: 33% in-class presentation, 67% problem solving.

AST 8011 High Energy Astrophysics
4 credit(s); prereq instr consent;
Instructor: Jones, Thomas Walter
Description: This course explores the nature of some of the most energetic phenomena in the universe, such as supernova, gamma ray bursts, quasars and accreting compact binary star systems. All of these phenomena come from very compact systems of high gravitational potential. Many of them also produce very high energy charged particles (cosmic rays) and energetic photons. Consequently, the first part of the course is a lecture-based overview of the essential physics of compact astrophysical objects, (primitive) general relativity, and particle acceleration. The remainder of the course is a seminar-based exploration of selected topics in the current, working literature of high energy astrophysics. Students are expected to lead seminar discussions. The course assumes a senior level physics background and an interest in astrophysics, but not necessarily a sophisticated knowledge of astronomy.
Style: 33% Lecture, 67% Discussion.
Grading: 25% mid exam, 25% in-class presentation, 25% class participation, 25% problem solving.

AST 8200 Astrophysics Seminar
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Woodward, Paul R
Description: Student may contact the instructor or department for information.

Biochemistry
140 Gortner Lab of Biochemistry

BIOC 2001 Biochemistry for the Agricultural and Health Sciences
3 credit(s); prereq Chem 1011, Biol 1009; not for biology majors;
Instructor: Fuchs, James A
Description: This is a one semester course that covers essential topics in organic chemistry (first half of course) that are essential for the understanding of biochemistry. The second half of the course covers topics of chemistry of biological molecules as well as metabolism and its regulation. This course allows students to complete a basic understanding of chemistry and biochemistry in one year. Students planning to major in biology or premedical science are advised to take a more advanced course.
Style: 100% Lecture.
Grading: 75% mid exam, 25% final exam.
Exam Format: Multiple choice

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: Silicano, Paul G
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 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 equilibrium, 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 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: Ron, 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. 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 4025 Laboratory in Biochemistry
2 credit(s); prereq 3021 or 4331 or Biol 3021;
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 immunochromogenic, 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: BIOC 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 4331 Biochemistry I: Structure, Catalysis, and Metabolism in Biological Systems
4 credit(s); prereq [BIOC 2003 or BIOL 1009 or BIOL 2003 or equiv], [CHEM 2302 or equiv] or instr consent ;
Instructor: Wilmot, Carrie 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. Web site at WebCT.
Style: 75% Lecture, 25% Investigation.
Grading: 75% mid exam, 35% final exam, 10% problem solving.
BIOC 4332 Biochemistry II: Molecular Mechanisms of Signal Transduction and Gene Expression
3 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 genetic 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 Alberts 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 5528 Spectroscopy and Kinetics
4 credit(s); prereq 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% mid exam, 30% final exam, 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 5201 Biochemistry
3 credit(s); prereq general biology, organic chemistry, instr consent; intended for MBS students; Credit will not be granted if credit has been received for: BIOC 3021;
Instructor: Roen,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. 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.
BIOC 8184 Graduate Seminar
3 credit(s); prereq general biology, organic chemistry, instr consent; intended for MBS students; Credit will not be granted if credit has been received for: BIOC 3021; 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.

BIOC 8401 Ethics, Public Policy, and Careers in Molecular and Cellular Biology
S-N only, 1 credit(s), max credits 2; prerequisite; Instructor: Neiseustuen, Gary L
Description: Ethics of scientific investigation from the viewpoint of western scientific enterprise. Relationship between science, culture, and public policies. Careers in molecular/cellular biology. Nontraditional career tracks. Invited speakers, case studies, small-group discussions, lectures.
Style: 30% Lecture, 40% Discussion, 30% Guest Speakers.
Grading: 50% attendance, 50% class participation. S/N only

Bioethics, Center for N-504 Boynton Health Service

BTHX 5325 Biomedical Ethics
3 credit(s); prereq Grad student or instr consent; Instructor: DeBruin PhD, Debra Ann
Description: Student may contact the instructor or department for information.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8; prerequisite; Instructor: Miles MD, Steven Haverstock
Description: Student may contact the instructor or department for information.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8; prerequisite; Instructor: Bartels, Dianne Mary
Description: Student may contact the instructor or department for information.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8; prerequisite; Instructor: Song, John Young
Description: Student may contact the instructor or department for information.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8; prerequisite; Instructor: Kahn, Jeffrey Paul
Description: Student may contact the instructor or department for information.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8; prerequisite; Instructor: Liashenko, Joan
Description: Student may contact the instructor or department for information.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8; prerequisite; Instructor:
BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8; prereq instr consent;
Instructor: Marshall, Mary Faith
Description: Student may contact the instructor or department for information.

BTHX 8114 Ethical and legal Issues in Genetic Counseling
A-F only, 3 credit(s); prereq [MCDBG MS, genetic counseling specialization] or instr consent;
Instructor: LeRoy, Bonnie S
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: Miles MD, Steven Havenstock
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: Bartels, Dianne Mary
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: Kahn, Jeffrey Paul
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: 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: Valapour, Maryam
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: Marshall, Mary Faith
Description: Student may contact the instructor or department for information.

BIFN 5480 Bioinformatics Journal Club
S-N only, 1 credit(s), max credits 12, 6 repeats allowed;
Instructor: Ellis, Lynda B
Description: The journal club is held once a week, over the lunch hour. The first meeting is organizational. Students sign up for the week they want to present a paper. This can be changed by swapping dates with another student; both students must agree to the swap. Students are free to choose any paper(s) on a bioinformatics topic to present. The instructor will offer suggestions if needed. At the organizational meeting, there is a short presentation on how to find articles on bioinformatics topics in online bibliographic databases. Students sign up for the UM bioinformatics email list, and send the paper they will present to that list about a week before their presentation. This is added to the BJJC webpage, and serves as an archive of past BI articles of interest. All persons interested in bioinformatics are welcome to attend.
Style: 100% Student Presentation.
Grading: S/N - graded on attendance. Talk to the instructor if you must miss a session. If you must miss several sessions, you probably should not take this class.

BIFN 5490 Topics in Bioinformatics
1-6 credit(s), max credits 12, 6 repeats allowed; prereq instr consent;
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 semester. 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 1020 Biology Colloquium
S-N only, 1 credit(s), max credits 2;
Instructor: Phillips, Jane Ann
Description: Student may contact the instructor or department for information.

BIOL 1093 Biology Colloquium: Directed Study
S-N only, 1 credit(s); prereq 1020 and concurrent enrollment 1020;
Instructor: Phillips, Jane Ann
Description: Student may contact the instructor or department for information.

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 1301 Becoming a Reflective Leader
S-N only, 1 credit(s); prereq Dean's Scholar;
Instructor: Kuecker Grotjohn, Jessica
Description: Student may contact the instructor or department for information.
BIOL 1301 Becoming a Reflective Leader  
S-N only, 1 credit(s); prereq Dean's Scholar;  
Instructor: Johnson, Sara N  
Description: Student may contact the instructor or department for information.

BIOL 1301 Becoming a Reflective Leader  
S-N only, 1 credit(s); prereq Dean's Scholar;  
Instructor: Letawsky Shultz, Nicole  
Description: Student may contact the instructor or department for information.

BIOL 1905 Freshman Seminar for the Biological Sciences: Exploring Statistics in the Medical Sciences  
A-F only, 1 credit(s), max credits 3, 1 repeat allowed; prereq freshman;  
Instructor: Neuhauser, Claudia  
Description: Student may contact the instructor or department for information.

BIOL 1905 Freshman Seminar for the Biological Sciences: GENOMICS: Appl in Biomedical Sci and Biotechnology  
A-F only, 1 credit(s), max credits 3, 1 repeat allowed; prereq freshman;  
Instructor: Hackett Jr, Perry B  
Description: Student may contact the instructor or department for information.

BIOL 2001 Career Planning for Biologists  
S-N only, 1 credit(s);  
Instructor: Joycechild, Lisa Dewey  
Description: Student may contact the instructor or department for information.

BIOL 2001 Career Planning for Biologists  
S-N only, 1 credit(s);  
Instructor: Fraasch, Nancy S  
Description: Student may contact the instructor or department for information.

BIOL 2002 Foundations of Biology for Biological Sciences Majors, Part I  
A-F only, 5 credit(s); prereq [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: Wick, Susan M  
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); prereq [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 2002; Meets CLE req of Biological Sciences/Lab Core;  
Instructor: Wick, Susan M  
Description: Student may contact the instructor or department for information.

BIOL 2003 Foundations of Biology for Biological Sciences Majors, Part II  
A-F only, 5 credit(s); prereq 2002, [MATH 1271 or MATH 1281]; Credit will not be granted if credit has been received for: BIOL 2003H; Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme;  
Instructor: Decker, Mark David

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 2003H Foundations of Biology for Biological Sciences Majors, Part II  
A-F only, 5 credit(s); prereq 2002, [MATH 1271 or MATH 1281]; Credit will not be granted if credit has been received for: BIOL 2003; Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme;  
Instructor: Decker, Mark David

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

BIOL 2012 General Zoology  
4 credit(s); prereq One semester of college biology; Credit will not be granted if credit has been received for: BIOL 2005;  
Instructor: Palmer, Melissa L

Description: The course provides a framework for understanding the major groups of animals (phyla) on Planet Earth, ranging from unicellular protozoa to arthropods and mammals and including their marine, freshwater, and terrestrial representatives. The phyla are traced through evolutionary times to see how they solved the common problems of existence (e.g., feeding, movement, respiration, reproduction) and how their solutions have given rise to changing levels of structural complexity. Video clips and slides are largely used to illustrate aspects of behavior, ecology, and relevance to human well-being. The laboratory is an integral part of the course; activities are hands-on and require dissections. The course is designed for undergraduate students in liberal arts and natural sciences and for pre-professional students in health sciences, agriculture, and natural resources. Lecture exams are based largely on lecture content and review questions from the text. Laboratory tests are practicum exams quizzing knowledge of actual specimens. Texts are Hickman, Roberts, Keen, Larsen, and Eisenhour "Animal Diversity," 4th ed., and Hickman "Laboratory Studies in Animal Diversity," 4th ed. Books can be purchased as a packet at the bookstore.  
Style: 67% Lecture, 33% Laboratory.  
Grading: 33% mid exam, 33% final exam, 33% laboratory evaluation.  
Exam Format: Lecture exams require short answers based on specific knowledge of concepts, presented in lecture

BIOL 2022 General Botany  
A-F only, 3 credit(s); prereq One semester of college biology;  
Instructor: Biesboer, David D.

Description: Scientific principles of plant biology including the evolution, organization, function, growth and development, and reproductive biology of plants and plant-like organisms. Includes lab.  
Style: 60% Lecture, 40% Laboratory.  
Grading: 100% other evaluation. see #2; 60% lecture/40% laboratory  
Exam Format: Multiple choice, short answer and essay.

BIOL 2032 General Microbiology With Laboratory  
4 credit(s); prereq [1002 or 1009 or 2002], CHEM 1011; intended for non-microbiology majors; Credit will not be granted if credit has been received for: MIBC 3301;  
Instructor: Matheswaran, Samuel K

Description: Student may contact the instructor or department for information.
BIOL 2032 General Microbiology With Laboratory
4 credit(s); prereq [1002 or 1009 or 2002], CHEM 1011; intended for non-microbiology majors; Credit will not be granted if credit has been received for: MICB 3301; Instructor: Maheeswaran, Samuel K
Description: This introductory course uses lectures, discussion and laboratory sessions to provide students with an overview of microbiology. Topic areas include bacterial structure and function; bacterial nutrition and growth; bacterial metabolism; bacterial genetics; ecology of viruses and fungi; control of microorganisms; antimicrobial chemotherapy; microbial pathogenesis; immunology and immunity; applied microbiology; and medical microbiology. Target Audience: course is intended for microbiology and non-microbiology majors. Texts: Introduction to Microbiology, Authors John L. Ingraham and Catherine A. Ingraham, Second Edition. Laboratory Guide: Laboratory Manual: General Microbiology. Department of Veterinary Pathobiology, University of Minnesota
Style: 75% Lecture, 25% Discussion. Lectures with audiovisual aids
Grading: 25% final exam, 50% quizzes, 10% laboratory evaluation, 15% problem solving.
Exam Format: multiple choice

BIOL 3002 Plant Biology: Function
2 credit(s); prereq [1002 or 1009 or 2003 or equiv], [[CHEM 1011, Concurrent registration is required (or allowed) in CHEM 3005] or AGRO 3005 or HORT 3005 or one semester chemistry with some organic content]; Instructor: Olczewski, 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 do 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 extreme 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: 33% mid exam, 33% final exam, 33% quizzes.
Exam Format: Exams and quizzes are composed mostly of true/false, multiple choice or short answer questions.

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 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 exams (25% each)
Exam Format: multiple choice

BIOL 3408W Ecology
3 credit(s); prereq [One semester college biology], [MATH 1142 or MATH 1271 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, computer 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.

**Exam Format:** Problems, short essays, multiple choice and true/false.

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**BIOL 3408W Ecology**

3 credit(s); prereq [One semester college biology]. [MATH 1142 or MATH 1271 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:** Cavender-Bares, Jeannine Marie

**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, 26% final exam, 25% reports/papers, 20% other evaluation. Problem Sets

**Exam Format:** Problems, short essays, multiple choice and true/false.

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**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: Shaw, Ruth Geyer

**Description:** This course explores the foundations of evolutionary biology. We will investigate the mechanisms of evolution and illustrate them with current research. We will examine the evolutionary divergence of biological forms inferred from presently existing biological diversity and fossils. 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 Futuyma Evolution 2005. 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. Class URL: <ahref="http://www.cbs.umn.edu/class/biol/3409">http://www.cbs.umn.edu/class/biol/3409</ahref>

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

**Grading:** 30% mid exam, 25% final exam, 10% class participation, 20% laboratory evaluation, 20% problem solving.

**Exam Format:** multiple choice, true/false, short answer, and essay.

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**BIOL 3411 Introduction to Animal Behavior**

3 credit(s); prereq One semester of college biology; Credit will not be granted if credit has been received for: BIOL 3811;

**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 undergraduate majors in EEB. Half of the course is taught in lecture form, 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.

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**BIOL 3600 Directed Instruction**

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

**Instructor:** Phillips, Jane Ann

**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.

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**BIOL 3610 Internship: Professional Experience in Biological Sciences**

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

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Genetics is the science of heredity, the science that attempts to explain the similarities and the differences that occur among relatives. The genetic information is stored in the form of the genetic code and is transmitted from generation to generation during sexual and asexual reproduction. The genetic information of living organisms acting within the constraints imposed by the environment determines the phenotype of our biosphere. Topics that will be covered in the course include Mendelian Genetics?segregation & independent assortment, dominance, epistasis, probability & chi-square, sex determination, sex chromosomes, & sex linkage, nucleic acid & chromosome structure, replication of DNA & chromosomes, linkage, crossing over, & chromosome mapping, recombination in microorganisms, transposable genetic elements, plasmids, & episomes, variations in chromosome number and structure, gene expression & the regulation of gene expression, mutation & DNA repair mechanisms, the operational definition of the GENE, molecular genetics?cloning and sequencing of genes, chromosomes, and genomes, genomics, the genetics of cancer, the inheritance of complex traits & heritability, and population genetics.

**BIOL 4003 Genetics**

3 credit(s); prereq [[BIOC 3021 or BIOC 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 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 4004 Cell Biology**

3 credit(s); prereq [3021 or BIOC 3021 or BIOC 4331, [4003 or BIOC 4332];

Instructor: Clarke,Duncan John

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: Koepp,Deanna

Description: This course is part of a core curriculum required for graduation in a number of biological science majors in the College of Biological Sciences. The material covered is also will be graded and will represent 17% of each student's grade. Genetics is the science of heredity, the science that attempts to explain the similarities and the differences that occur among relatives. The genetic information is stored in the form of the genetic code and is transmitted from generation to generation during sexual and asexual reproduction. The genetic information of living organisms acting within the constraints imposed by the environment determines the phenotype of our biosphere. Topics that will be covered in the course include Mendelian Genetics?segregation & independent assortment, dominance, epistasis, probability & chi-square, sex determination, sex chromosomes, & sex linkage, nucleic acid & chromosome structure, replication of DNA & chromosomes, linkage, crossing over, & chromosome mapping, recombination in microorganisms, transposable genetic elements, plasmids, & episomes, variations in chromosome number and structure, gene expression & the regulation of gene expression, mutation & DNA repair mechanisms, the operational definition of the GENE, molecular genetics?cloning and sequencing of genes, chromosomes, and genomes, genomics, the genetics of cancer, the inheritance of complex traits & heritability, and population genetics.

Style: 75% Lecture, 10% Discussion, 8% Small Group Activities, 7% Student Presentation. Student presentations will be as cooperative learning group reports, with five students in each group.

Grading: 33% final exam, 10% special projects, 50% additional semester exams, 7% in-class presentation.

**BIOL 4003 Genetics**

3 credit(s); prereq [[BIOC 3021 or BIOC 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: Gray,William M

Description: Introduction to the nature of genetic information, its transmission from parents to offspring, its expression in cells and organisms, and its course in populations. The course is intended for majors in biology or departmental degree programs in biology. An understanding of undergraduate level biochemistry is a prerequisite.

Style: 95% Lecture, 5% Discussion.

Grading: 67% mid exam, 33% final exam.

Exam Format: problem solving, multiple choice

**BIOL 4003 Genetics**

3 credit(s); prereq [[BIOC 3021 or BIOC 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: Wright,Robin

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

**BIOL 3960H Honors Seminar**

A-F only, 1 credit(s); max credits 2; prereq Limited to participation in CBS honors program, dept consent ; Credit will not be granted if credit has been received for: GCD 3022;

Instructor: Wright,Robin

Description: Student may contact the instructor or department for information.
applicable to basic studies in other areas of science and technology. The course provides an intense introduction to the fundamentals of cellular systems, focusing on dynamic cellular activities at the molecular level. Significant emphasis is placed on understanding the experimental basis of our current knowledge of cellular processes. In this respect, this course is well suited to those students planning for advanced study, including graduate and medical school. The material covered in this course builds directly upon material covered in the prerequisite courses of Biochemistry and Genetics. Students will learn to recognize and understand fundamental processes common to all types of cells as well as understanding those processes unique to specialized or differentiated cells. At the completion of the course, students should be familiar with the mechanisms by which cells replicate and transcribe and translate their genetic information, secrete proteins, assemble organelles and transport molecules to them, move, respond to signals and divide. Course material will be presented in a combined lecture and discussion format. Students are encouraged to actively participate in class discussions and to ask questions.

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

**Grading:** 80% mid exam, 10% special projects, 10% written homework.

**Exam Format:** short essay, problem-solving, multiple choice

**BIOL 4950 Special Topics in Biology: Feed a Cold, Starve a Tumor:**

**1 credit(s), max credits 3, 1 repeat allowed;**

**Instructor:** Arsham, Andrew

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

**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:** Shaw, Ruth Geyer

**Description:** This course will examine historical evolution through consideration of divergence of biological forms in the fossil record and in presently existing biological diversity. It will introduce the genetic mechanisms of evolution and illustrate them with examples of ongoing evolution in natural, agricultural, and human populations. The course, which satisfies a core requirement for Biology majors is intended for undergraduates who have taken Biol 1001, 1002 or the equivalent. Text: DJ Futuyma, Evolutionary Biology 3rd Ed.

**BIOL 6793 Directed Studies**

**1-7 credit(s), max credits 7, 7 repeats allowed; prereq MBS, 7 cr max, instr consent;**

**Instructor:** Fuchs, James A

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

**BIOL 6794 Directed Research**

**S-N only, 1-7 credit(s), max credits 7, 1 repeat allowed; prereq MBS, instr consent;**

**Instructor:** Fuchs, James A

**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.

**Biology, Society, and Environment**

**BSE 3355 Environmental Quality**

**3 credit(s);**

**Instructor:** Squires, Roderick H

**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

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

BMEN 5011 Advanced Bioelectricity and Instrumentation
3 credit(s); prereq [IT upper div, grad student] or instr consent; Instructor: He,Bin; Description: This course focuses on the generation of biological electricity, its measurement and modeling, as well as therapeutic use of electricity to treat cardiac and neural problems. It is suitable for advanced undergraduate and graduate students. Specific areas of emphasis include generation of electric fields, electric and magnetic fields in biological tissues, stimulating and recording electrodes, and cardiac pacing/defibrillation.

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

BMEN 5311 Advanced Biomedical Transport Processes
3-4 credit(s), max credits 4, 1 repeat allowed; prereq IT upper div or grad student or instr consent; [ChEn 5103 or ME 5342] recommended; Credit will not be granted if credit has been received for: ME 5381; Instructor: Barocas,Victor Howard; Description: This course focuses primarily on biological fluid flows and electrochemical transport. The four major sections of the course are: 1) interstitial and transvascular flow (Barocas,D'arcy's law, poroelasticity); 2) Cardiovacular flow (Barocas, Boundary Layer Theory, pulsatile flow); 3) Electrochemical transport (Siegel, Donnan equilibrium, Nernst-Planck eqn); 4) Special topics (Barocas, Drug delivery, blood oxygenation, intracellular flow). The special topics may change according to the interest of the class and instructor. Prerequisites: IT upper division undergraduate or graduate student, or consent of instructor. An introductory fluids or transport course (e.g., BMEN 3101, ChEn 4002, ME 3322) is highly recommended.

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,V; Description: Introduction to new product development and business development. Design and analysis of case studies. 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 5444 Muscle
3 credit(s); Instructor: Thomas,David D; Description: Description: Introduction to physiology, biochemistry, 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: Intro to BioMEMS & Medical Microdevices
2 credit(s), max credits 4; 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 electrokinetcis; 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 and graduate 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: 70% Lecture, 10% Discussion, 15% Student Presentation, 5% Field Trips. Tour of the Nanofabrication Center and Characterization Facility. Grading: 40% mid exam, 40% final exam, 10% in-class participation. Exam Format: Essay

BMEN 5920 Special Topics in Biomedical Engineering: Introduction to Biomedical Optics
3 credit(s), max credits 6; Instructor: Akkin,Taner; Description: Course Description: The objective of this course is to develop knowledge in the area of biomedical optical imaging and sensing. Topics include basic optical principles, laser-tissue interaction, detector design and noise analysis, interferometry, spectroscopy, and optical imaging. Methods will range from the simple Beer's Law to the Monte Carlo modeling of light transport in scattering tissue, and from the basic Michelson interferometer to the state-of-the-art non-invasive optical coherence tomography of tissues. Flow measurement, dye imaging, fluorescence, birefringence and non-linear microscopy will be introduced. Students will get an opportunity to visit various laboratories on campus to see optical instruments being developed for biomedical imaging and sensing applications. Style: 85% Lecture, 5% Student Presentation, 10% Guest Speakers. Grading: Homework (25%) Exam-I (25%), Exam-II (25%), Final Exam/Project (25%)

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,V; Description: Introduction to new product development and business development. Design and analysis of case studies. 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

This information is accurate as of 9/15/2008 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.
Biophysical Sciences
B230 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 8293 Directed Study in Biophysical Sciences and Medical Physics
1-12 credit(s), max credits 12, 1 repeat allowed; prereq instr consent;
Instructor: Ritenour,E Russell
Description: Student may contact the instructor or department for information.

BPHY 8294 Directed Research in Biophysical Sciences and Medical Physics
1-12 credit(s), max credits 12, 1 repeat allowed; prereq instr consent;
Instructor: Ritenour,E Russell
Description: Student may contact the instructor or department for information.

Bioprocesses and Biosystems Engineering
203 Kauert 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 1003 Wood and Fiber Science Lab
A-F only, 1 credit(s); prereq recommend concurrent enrollment in BP 1002;
Instructor: Seavey,Robert Thomas
Description: Student may contact the instructor or department for information.

BBE 3013 Engineering Principles of Molecular and Cellular Processes
A-F only, 3 credit(s); prereq Biol 1009, [Chem 1022 or Concurrent registration is required (or allowed) in Chem 1022], Math 1272;
Instructor: Bhattacharya,Mrinal
Description: Introduction to applied engineering principles in biological processes, classification of microbes of industrial importance, parameters important for cellular control, modeling of cell growth and metabolism, enzymatic catalysis, bioreactor design, product recovery operations design and case studies. Course objectives/outcomes: Students will: 1) Become familiar with topics in current industrial microbiology. 2) Understand cell growth and metabolism. 3) Gain an understanding of parameters involved in bioreactor design. 4) Gain an understanding of various downstream separation processes. 5) Participate in laboratory course.
Style: 60% Lecture, 10% Discussion, 30% Laboratory.
Grading: 20% final exam, 20% special projects, 20% quizzes, 20% laboratory evaluation, 20% problem solving.
Exam Format: Essay

BBE 4013 Transport in Biological Systems
A-F only, 4 credit(s); prereq [3013 or Concurrent registration is required (or allowed) in 3013 or Chem 3701], CE 3502, [ME 3331 or Chem 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 biodegradable 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 lignocel lulosic 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.

**Course Objectives:** By completing this course students should be able to:

1. Understand and describe the types of adhesives used in manufacturing wood-based composites.
2. Understand and describe the types of adhesives used in manufacturing wood products and composites.
3. Understand the major issues related to wood-based composite applications.

**Grading:** Week 1 Course Introduction – Wood as a multi-component polymer system?

**Style:** 75% Lecture, 15% Discussion. Hands on training.

**Grading:** 60% mid exam, 20% final exam, 10% class participation, 10% other evaluation.

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3 credit(s); prereq Math 1272 or instr consent.

**Instructor:** Ramaswamy, Shri

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

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**BEE 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.

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**BEE 4402 Bio-based Products Engineering Lab I**

A-F only. 1 credit(s); prereq CHEM 2301, [jr or sr or instr consent]. Credit will not be granted if credit has been received for: BEE 5402.

**Instructor:** Tschirner, Ulrike Waltrauf

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

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**BEE 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: BEE 5412; Meets CLE req of Writing Intensive.

**Instructor:** Beavey, Robert Thomas

**Description:** BEE 4412W Manufacturing and Applications of Bio-based Products II 3 Credit(s); Spring Semester 2008 9:35 - 11:30; Tu and Th: Harlan Petersen Bob Beavey 202 Kaufert Laboratory 30B Kaufert Laboratory 612/624-3407.

**Course Objectives:** By completing this course students should be able to:

1. Understand and describe the equipment and operations used in manufacturing wood-based composite products.
2. Understand and describe the types of adhesives used in manufacturing wood products and composites.
3. Understand the major issues related to wood-based composite applications.


**Style:** 75% Lecture, 25% Laboratory, 25% Field Trips.

**Grading:** 30% mid exam, 20% final exam, 40% reports/papers, 10% other evaluation.

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**BEE 4413 Systems Approach to Residential Construction**

3 credit(s); prereq [3411, upper div] or instr consent.

**Instructor:** Janni, 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.

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**BEE 4502W BEE Capstone Design**

A-F only. 4 credit(s); prereq [2113 or 4501], sr; Meets CLE req of Writing Intensive.

**Instructor:** Wang, Ping

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

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

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**BEE 4533 Agricultural Waste Management Engineering**

A-F only. 3 credit(s); prereq 3411, upper div; Meets CLE req of Writing Intensive.

**Instructor:** Janni, Kevin A

**Description:** This course is required for all undergraduate students in the Department of Bioproducts and Biosystems Engineering. It covers the design and management of agricultural waste systems, with a focus on the conversion of biomass to energy. The course is structured around several key topics:

1. **Sources and characteristics of agricultural wastes** - Understanding the types of agricultural waste and their characteristics.
2. **Energy calculations** - Calculating the energy content of agricultural wastes.
3. **Fundamentals of heat, air, and moisture transport** - Understanding the principles of heat, air, and moisture transport in agricultural systems.
4. **Strong understanding of basic building materials and assemblies** - Understanding the materials and assemblies used in agricultural waste systems.
5. **Overview of residential mechanical systems** - Understanding the mechanical systems used in agricultural waste systems.
6. **Principles for good indoor air quality** - Understanding the principles for maintaining good indoor air quality in agricultural waste systems.

**Style:** 75% Lecture, 15% Discussion. Hands on training.

**Grading:** 60% mid exam, 20% final exam, 20% reports/papers, 10% other evaluation.
treatment (aerobic and anaerobic) and utilization/disposal. Land application. Course objectives/outcomes: This course is designed for senior level students in engineering to provide fundamentals and agricultural waste management and the concepts involved for design of waste management systems that are environmentally sound.

**Style:** 55% Lecture, 15% Discussion, 30% Laboratory.

**Grading:** 40% final exam, 10% reports/papers, 30% quizzes, 5% in-class presentation, 10% laboratory evaluation, 5% problem solving.

**Exam Format:** Short answer and problems.

**BBE 4713 Biological Process Engineering**

**A-F only, 3 credit(s); prereq [4013 or Concurrent registration is required (or allowed) in 4013], BP 3033, upper div IT;**

**Instructor:** Zhu, Jun

**Description:** Principles of bioprocess 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:** Ruan PhD, R. Roger

**Description:** This course provides fundamentals to the current and emerging technologies for renewable energy production and uses. Issues regarding national energy security and environmental, economic and societal impacts of renewable energy will also be addressed. Students will learn the basic principals of various renewable energy technologies, such as solar thermal energy, solar photovoltaics, biomass energy, wind energy, hydroelectricity, tidal power, and geothermal energy, an understanding of basic characteristics of renewable resources, key methods for efficient production and use of renewable energy, an understanding of current and probable future developments in renewable energy technologies, impact of renewable energy on sustainable development.

**Style:** 70% Lecture, 5% Student Presentation, 5% Field Trips, 20% Guest Speakers.

**Grading:** 30% mid exam, 25% final exam, 15% reports/papers, 30% written homework.

**BEE 4900 Intern Reports**

**S-N only, 2 credit(s), max credits 4; prereq IT or COAFES student in BAE, instr 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.

**BEE 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.

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**BEE 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 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 midsemester exams (multi-format = information comprehension + application).

**BEE 5320 Applied Statistics for Process Industries**

**Measurement, Analysis, and Control**

**3 credit(s); prereq Grad student or instr consent;**

**Instructor:** Ramaswamy, Shri

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

**BEE 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 Waltrau

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

**BEE 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

Week 9 Product Application - Exterior Cladding Products
Wood siding products? Hardboard and composite siding
Application of finishing systems to preserve wood and composite siding in exterior conditions? Performance of paint and opaque stains? Sealers: service life and water repellency
Application issues for lumber and framing materials?
Alternatives for framing for the residential market? Evaluation of framing alternates.
Week 12 Treated wood products? Historic development of wood treating systems? Environmental issues and wood preservatives
Week 13 Introduction to wood-plastic composites? Manufacturing technology of wood-plastic composites?
Use of wood-plastic composites for decking & siding

BBE 8413 A Systems Approach to Residential Construction
3 credit(s); prerequisite Grad student or instructor consent;
Credit will not be granted if credit has been received for: WPS 4333
Instructor: Janni, Kevin A
Description:

BBE 8414 A Systems Approach to Residential Construction
3 credit(s); prerequisite Grad student or instructor consent;
Credit will not be granted if credit has been received for: WPS 4333
Instructor: Huelman, Patrick Henry
Description:

BBE 5480 Special Topics: Off-road Vehicle Design
4 credit(s), max credits 12, 3 repeats allowed; prerequisite 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 5543 Bio-based Products Development and Management
A-F only, 3 credit(s); prerequisite Grad student or instructor consent;
Instructor: Smith, Tim
Description: Student may contact the instructor or department for information.

BBE 8094 Advanced Problems and Research
2-6 credit(s), max credits 6, 1 repeat allowed; prerequisite 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; prerequisite
Instructor: Schmidt, Elmer Lyle
Description: Student may contact the instructor or department for information.

BBE 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Seavey, Robert Thomas
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Severtson, Steve John
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Sarkanen, Simo
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Tschirner, Ulrike Waltrau
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Ramaswamy, Shri
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Petersen, Harlan David
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Bowyer, Jim L.
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Huelman, Patrick Henry
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Smith, Tim
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Tze, William Tai Yin
Description: Student may contact the instructor or department for information.

BIB 8300 Research Problems
1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite
Instructor: Suh, Sangwon
Description: Student may contact the instructor or department for information.
BA 3000 Career Skills
A-F only, 1 credit(s); prereq CSOM soph or upper div major;
Instructor: Opal,Brent S
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.

Style: 35% Lecture, 50% Discussion. guest speakers
Grading: 90% reports/papers, 10% class participation.

BA 3000 Career Skills
A-F only, 3 credit(s); prereq [CSOM soph or upper div major]; Instructor: Bartels,Christian 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.
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, 40% reports/papers, 40% in-class presentation, 10% class participation.

BA 3200H Securian Foundation Leadership Colloquium
A-F only, 2 credit(s); prereq Honors;
Instructor: Opal,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
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Littlefield,Holly A
Description: The goal of this course is to help students understand the impact of culture and communications on business interactions around the world and to help them develop cross-cultural analytic and adaptation skills. This course will address major cultural differences in communication theory and practice around the world by looking at how cross-cultural communications can and do affect the methods and outcomes of international business. It will examine patterns of organizational structures and hierarchies; value systems and beliefs; language and other forms of communications, and it will explore the ways that business interactions are impacted by cultural dimensions.

BA 3900H Honors Topics: Marketing of Social Issues & Corporate Social Resp
A-F only, 4 credit(s), max credits 8; prereq Honors;
Instructor: Loken,Barbara
Description: In this honors course, we tackle social issues. Specifically, we discuss how marketing principles can be used to promote social issues and change consumer behavior. Social marketing campaigns on such issues as environmental protection, steroid, drug and tobacco use prevention, and a variety of health promotion topics will be evaluated. A framework for understanding social marketing will be provided during the first few weeks of the term, and examples from a social marketing campaigns will be discussed and analyzed. A second component of the course involves analyzing techniques used in marketing that include corporate social responsibility initiatives. We will read articles and analyze the pros and cons of using these initiatives to address product and promotion problems, to bolster brands, and/or to contribute to alleviating societal problems. Requirements for the course will include a class participation component, a social marketing project, and an exam.

BA 3999 Internship Seminar
S-N only, 1 credit(s); prereq Approved internship, instr consent;
Instructor: Dearduff,Mindy Jo
Description: The BA 3999 is a one-credit independent study course (one required instructor meeting during the semester) designed to help you understand and explore key issues that you will encounter during the course of a typical internship, including stages of the internship, organizational culture and effective communication. You will apply this new understanding to your current internship and reflect on your experience in weekly reflection assignments and a final course paper. You will gain a set of frameworks around key work and career issues to guide you in your future transition from school to career. You must be working in an internship (paid or unpaid) for at least 10 hours per week during the course of the semester to register. To register for this course, please contact Mindy Dearduff at mdearduff@csom.umn.edu.
Style: 10% Discussion, independent study
Grading: 100% reports/papers. also required meeting with course instructor

BA 4000H Honors Seminar: Healthcare Marketplace: Trillion
Dollar Economy
A-F only, 4 credit(s); prereq CSOM honors, 2nd sem sr;
Instructor: Parente, Stephen T
Description: Student may contact the instructor or department for information.

BA 4501 Carlson Funds Enterprise: Growth
OPT No Aud, 3 credit(s), max credits 6; prereq Concurrent registration is required (or allowed) in MBA 6501, CSOM [jr or sr], approved application;
Instructor: Nantell, Timothy J
Description: Student may contact the instructor or department for information.

BA 4502 Carlson Funds Enterprise: Fixed Income
OPT No Aud, 3 credit(s), max credits 6; prereq Concurrent registration is required (or allowed) in MBA 6502, CSOM [jr or sr], approved application;
Instructor: Nantell, Timothy J
Description: Student may contact the instructor or department for information.

BA 4503 Carlson Ventures Enterprise
OPT No Aud, 3 credit(s), max credits 6, 3 repeats allowed; prereq Concurrent registration is required (or allowed) in MBA 6503, CSOM [jr or sr], approved application;
Instructor: Nord, Tobin Lawrence
Description: Student may contact the instructor or department for information.

BA 4504 Carlson Consulting Enterprise
OPT No Aud, 3 credit(s), max credits 6; prereq Concurrent registration is required (or allowed) in MBA 6504, CSOM [jr or sr], approved application;
Instructor: Beier, Frederick J
Description: Student may contact the instructor or department for information.

BA 4505 Brands Enterprise
OPT No Aud, 3 credit(s), max credits 6; prereq Concurrent registration is required (or allowed) in MBA 6505, CSOM [jr or sr], approved application;
Instructor: Hopkins, David K
Description: Student may contact the instructor or department for information.

Business Law
3-110 CarlSmgmt

BLAW 3058 The Law of Contracts and Agency
A-F only, 4 credit(s); prereq 40 or more credits;
Instructor: Andrews Jr, Albert O
Description: Student may contact the instructor or department for information.

BLAW 6158 The Law of Contracts and Agency
A-F only, 4 credit(s); prereq MBA student;
Instructor: Andrews Jr, Albert O
Description: Student may contact the instructor or department for information.

Business and Industry Education
425 VoTech Building

BIE 1396 Supervised Career and Technical Education Teaching
S-N only, 4 credit(s); prereq college consent;
Instructor: Stertz, Tom
Description: This course is a supervised teaching experience for beginning on-the-job and pre-service instructors in Career and Technical Education. The course can be used to satisfy the Minnesota Secondary Career and Technical Teacher licensure requirement. The course is delivered in an individualized mode with the U of M instructor acting as a supervisor and resource person. An on-site career and technical instructor or supervisor will also serve as a mentor. All work agreed upon by the student and the BIE 1396 instructor.

BIE 3061 Professional Sales Management
A-F only, 3 credit(s);
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

BIE 3113 Manufacturing Technology
3 credit(s); prereq Concurrent enrollment 3111;
Instructor: Nehring, Michael Kenneth
Description: Student may contact the instructor or department for information.

BIE 3122 Communication and Information Technology
A-F only, 3 credit(s); prereq Concurrent enrollment 3121;
Instructor: Boone, Michael Dennis
Description: Individualized advanced technical development in construction, communication technology, manufacturing, power and energy, and transportation.

BIE 3151 Technical Development: Advanced
1-32 credit(s), max credits 32, 12 repeats allowed; prereq instr consent;
Instructor: Stertz, Tom
Description: Individualized advanced technical development in construction, communication technology, manufacturing, power and energy, and transportation.

BIE 3993 Directed Study: BIE
1-4 credit(s), max credits 4, 1 repeat allowed;
Instructor: Stertz, Tom
Description: Student may contact the instructor or department for information.

BIE 5001 Teaching Marketing Promotion
A-F only, 3 credit(s);
Instructor: Hagen, Marcia Sue
Description: Student may contact the instructor or department for information.

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

BIE 5011 Introduction to Computer Applications
3 credit(s);
Instructor: Cherry, Jennifer E
Description: Style: 25% Lecture, 25% Small Group Activities, 10% Student Presentation, 25% Demonstration, 15% Web Based.
Grading: 25% final exam, 50% quizzes, 10% written homework, 15% in-class presentation.
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); prereq 5011 or equiv;
Instructor: Horazdovsky, Jerry Edwa
Description: Student may contact the instructor or department for information.

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

BIE 5014 Database Computer Applications
3 credit(s); prereq 5011 or equiv;
Instructor: Johnson, David Lloyd
Description: Student may contact the instructor or department for information.

BIE 5015 Integrated Computer Applications in Business and Marketing Education
3 credit(s); prereq [5011, 5012, 5013, 5014] or equiv;
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 5101 Technological Problem Solving
A-F only, 3 credit(s); prereq 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 5151 Technical Development: Specialized
A-F only, 1-12 credit(s), max credits 12, 12 repeats allowed; prereq instr 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 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: 25% 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; prereq instr 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 5597 Internship: Business and Industry Education
S-N only, 1-8 credit(s), max credits 12, 12 repeats allowed; prereq instr 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 6995 Research Problems: Business and Industry
S-N only, 3-6 credit(s), max credits 6, 1 repeat allowed; prereq Adviser approval;
Instructor: Stertz, Tom
Description: Student may contact the instructor or department for information.

Carlson Executive MBA
2-210 CarlSMgmt

CMBA 5521 Managerial Accounting
A-F only, 3 credit(s);
Instructor: Joyce, Edward J
Description: Student may contact the instructor or department for information.

CMBA 5531 Financial Management
A-F only, 3 credit(s);
Instructor: Gahlon, James M
Description: Student may contact the instructor or department for information.

CMBA 5532 Marketing Management
A-F only, 3 credit(s);
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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.
CSPH 5000 Explorations in Complementary Therapies and Healing Practices
1-4 credit(s); max credits 12. 4 repeats allowed; prereq Jr or sr or grad student or instr consent; Instructor: Lawson MD, Karen Lynn
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 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 health care 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. Students will also turn in a reflection in each class, taking into account their readiness to learn and key learnings from the class. Most readings will be from the CSPH website modules.
Style: 50% Lecture, 50% Discussion.
Grading: 50% journal, 40% class participation, 10% other evaluation. Final journal is worth 50 of 350 points
Exam Format: No exams

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 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.

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
2 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: Storlie,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 5311 Introduction to Traditional Chinese Medicine
A-F only, 2 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Hafner,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,Carey
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 5501 Clinical Aromatherapy: Therapeutic Use of Plant Essential Oils
3 credit(s); prereq Jr or sr or grad student or instr consent; intended for students in health sciences or practicing health professionals; [basic science, health science knowledge, computer skills, internet skills] recommended; Instructor: Halcon,Ph.D,Linda Luciente
Description: Student may contact the instructor or department for information.

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

CSPH 5711 Optimal Healing Environments
3 credit(s); prereq Jr or sr or grad student or instr consent; Instructor: Kreitzer,Mary J.
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;
**Chemical Engineering**

**151 Amundson Hall**

**CHEN 3041 Industrial Assignment I**
A-F only, 2 credit(s); prereq ChEn upper Div, completion of required courses in ChEn prog through fall sem of 3rd yr, GPA of at least 2.80, registered in co-op prog; Credit will not be granted if credit has been received for: MATS 3041; Instructor: Shores, David A

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

**CHEN 4001 Material and Energy Balances**
A-F only, 4 credit(s); prereq [Chem 2302 or Concurrent registration is required (or allowed) in Chem 2302], [Chem 3501 or Concurrent registration is required (or allowed) in Chem 3501 or equiv], [Math 2273 or Concurrent registration is required (or allowed) in Math 2373 or equiv], [Math 2374 or Concurrent registration is required (or allowed) in Math 2374 or equiv], Phys 1302; Instructor: Dorfman, Kevin

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

**CHEN 4006 Mass Transport and Separation Processes**
A-F only, 4 credit(s); prereq [4001 or dept consent ], 4005, 4101, [upper div ChEn major or dept consent ]; Instructor: Daoutidis, Prodromos

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

**CHEN 4041 Industrial Assignment II**
A-F only, 2 credit(s); prereq 3041, completion of required courses in ChEn prog through fall sem of 4th year, GPA of at least 2.80, registration in co-op prog; Credit will not be granted if credit has been received for: MATS 4041; Instructor: Shores, David A

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

**CHEN 4102 Reaction Kinetics and Reactor Engineering**
A-F only, 4 credit(s); prereq 4001, 4101, [upper div ChEn major or dept consent ]; Instructor: McCormick, Alon Victor

**Description:** Chemical equilibrium and chemical kinetics applied to chemical engineering systems. Behavior/design of chemical reactors, interaction between chemical and physical rate processes. Mathematical modeling, design of reactors.

**CHEN 4201 Numerical methods in ChEn applications**
A-F only, 3 credit(s); prereq [4001 or dept consent ], [4005 or equiv], [4006 or Concurrent registration is required (or allowed) in 4006 or equiv], [upper div ChEn major or dept consent ]; Instructor: Kumar, Satish

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

**CHEN 4201 Numerical methods in ChEn applications**
A-F only, 3 credit(s); prereq [4001 or dept consent ], [4005 or equiv], [4006 or Concurrent registration is required (or allowed) in 4006 or equiv], [upper div ChEn major or dept consent ]; Instructor: Kumar, Satish

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

**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 relationships. Polymerization types: free radical, 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. Crystallization 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.

**CHEN 4402W 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:** Student may contact the instructor or department for information.

**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 upper div;

**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 5381;
CHEM 8202 Applied Mathematics II: Nonlinear Analysis
A-F only, 2 credit(s); prerequisite: [Grad-level course in linear analysis, chemical engineering grad major] or instructor consent;
Instructor: Derby, Jeffrey Jay
Description: May contact the instructor or department for information.

CHEM 8401 Physical and Chemical Thermodynamics
A-F only, 3 credit(s); prerequisite: [Undergraduate engineering course or chemistry course in thermodynamics], Chemical engineering grad student or instructor consent;
Instructor: Aydil, Eray S
Description: May contact the instructor or department for information.

CHEM 8501 Chemical Rate Processes: Analysis of Chemical Reactors
A-F only, 3 credit(s); prerequisite: [Course in chemical reactor engineering, chemical engineering grad student] or instructor consent;
Instructor: Tsapatsis, Michael
Description: May contact the instructor or department for information.

CHEM 8754 Systems Analysis of Biological Processes
3 credit(s); prerequisite: [Life sciences or chemical/physical sciences or engineering]; ChEn students must take A-F;
Instructor: Hu, Wei-Shou
Description: May contact the instructor or department for information.

CHEM 8901 Seminar
1 credit(s), maximum credits 9, 9 repeats allowed;
Instructor: Frisbie, C. Daniel
Description: May contact the instructor or department for information.

CHEM 8993 Directed Study
1-12 credit(s), maximum credits 12, 1 repeat allowed;
Instructor: Norris, David J
Description: May contact the instructor or department for information.

CHEM 8994 Directed Research
1-12 credit(s), maximum credits 12, 1 repeat allowed;
Instructor: Frisbie, C. Daniel
Description: May contact the instructor or department for information.

CHEM 1905 Freshman Seminar: Recycle Your Way To Fortune and Fame
A-F only, 2 credit(s), maximum credits 3, 1 repeat allowed; prerequisite: freshman;
Instructor: Noland, Wayland E
Description: May contact the instructor or department for information.

CHEM 1905 Freshman Seminar: How Do Chemists Study Biology?
A-F only, 2 credit(s), maximum credits 3, 1 repeat allowed; prerequisite: freshman;
Instructor: Distefano, Mark Dewey
Description: May contact the instructor or department for information.

CHEM 2094 Directed Research
1-3 credit(s), maximum credits 3, 1 repeat allowed; prerequisite: instructor consent;
Instructor: Stathopoulos, Stephanie M
Description: May contact the instructor or department for information.

CHEM 2311 Organic Lab
4 credit(s); prerequisite: Grade of at least C- in 2302 or Concurrent registration is required (or allowed) in 2302;
Instructor: Wissinger, Jane 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 other 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. Required is the ability to obtain data from electronic devices and files. Overall, the objective is to give the student 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 evaluations, preparation and techniques.

CHEM 2920 Special Topics In Chemistry
S-N only, 1 credit(s), maximum credits 6, 6 repeats allowed; prerequisite: 1 semester chemistry or instructor consent;
Instructor: Stathopoulos, Stephanie M
Description: May contact the instructor or department for information.

CHEM 3001 Chemical Literature and Information Retrieval
S-N only, 1 credit(s); prerequisite: 2302 or concurrent enrollment in 2302 or instructor consent;
Instructor: Lafferty, Meghan
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 4021 Computational Chemistry
3 credit(s); prerequisite: 3502 or equivalent;
Instructor: Gao, Jiali
Description: May contact the instructor or department for information.

CHEM 4066 Chemistry of Industry
3 credit(s); prerequisite: chemistry or graduate student or instructor consent;
Instructor: Kapsner, Timothy Roland
Description: 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 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: Blackbum,Dave Walter
Description: Student may contact the instructor or department for information.

CHEM 4121 Process Analytical Chemistry
A-F only, 3 credit(s); prereq 2302, 2311, 3501, chemical engineering major;
Instructor: Kolpin,Charles F
Description: Student may contact the instructor or department for information.

CHEM 4223W Polymer Laboratory
2 credit(s); prereq 4221 or 8221 or MATS 5221 or CHEN 4214 or CHEN 5221 or instr consent; Credit will not be granted if credit has been received for: MATS 5223W; Meets CLE req of Writing Intensive;
Instructor: Hillymer,Marc Andrew
Description: Style: 20% Lecture, 80% Laboratory. Grading: 60% reports/papers, 20% written homework, 20% 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 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 4745 Advanced Inorganic Chemistry
3 credit(s); prereq 4701, chem major, instr consent;
Instructor: Ellis,John Emmett
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: Haugstad,Greg David
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 Math 2374], [Phys 1302 or Phys 1402V];
Instructor: Blank,David A
Description: Student may contact the instructor or department for information.

CHEM 5502 Introduction to Quantum Mechanics and Spectroscopy
A-F only, 3 credit(s); prereq [1022 or 1032H], [MATH 2263 or MATH 2374], [PHYS 1302 or PHYS 1402V];
Instructor: Zhu,Xiaoyang
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: Gao,Jiali
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,Illja
Description: Student may contact the instructor or department for information.

CHEM 8155 Advanced Electroanalytical Chemistry
4 credit(s);
Instructor: Buhlmann,Philippe
Description: Student may contact the instructor or department for information.

CHEM 8157 Bioanalytical Chemistry
A-F only, 4 credit(s); prereq instr consent;
Instructor: Arriaga,Edgar
Description: Student may contact the instructor or department for information.

CHEM 8211 Physical Chemistry of Polymers
3 credit(s), max credits 4, 1 repeat allowed; prereq undergrad physical chem course; Credit will not be granted if credit has been received for: MATS 8211;
Instructor: Lodge,Timothy P
Description: Student may contact the instructor or department for information.

CHEM 8322 Advanced Organic Chemistry
4 credit(s); prereq 2302 or equiv;
Instructor: Hoye,Thomas R
Description: Student may contact the instructor or department for information.

CHEM 8352 Physical Organic Chemistry
4 credit(s); prereq 4011 or 8011;
Instructor: Kass,Steven R
Description: Student may contact the instructor or department for information.

CHEM 8552 Quantum Mechanics II
4 credit(s); prereq 8551;
Instructor: Lipsky,Sanford
Description: Student may contact the instructor or department for information.

CHEM 8562 Thermodynamics, Statistical Mechanics, and Reaction Dynamics II
4 credit(s); prereq 8561;
Instructor: Siepmann,Illja
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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.

CHEM 8601 Seminar: Modern Problems in Chemistry
S-N only, 1 credit(s); prereq grad chem major or instr consent;
Instructor: Haynes, Christy L
Description: Student may contact the instructor or department for information.

CHEM 8602 Seminar Presentation: Modern Problems in Chemistry
A-F only, 1 credit(s); prereq grad chem major or instr consent;
Instructor: Haynes, Christy L
Description: Student may contact the instructor or department for information.

CHEM 8735 Bioinorganic Chemistry
4 credit(s); prereq 4701 or equiv, grad chem major or instr consent;
Instructor: Que Jr, Lawrence
Description: Student may contact the instructor or department for information.

CHEM 8745 Advanced Inorganic Chemistry
4 credit(s); prereq 8715, grad chem major or instr consent;
Instructor: Ellis, John Emmett
Description: Student may contact the instructor or department for information.

CHEM 8880 Special Topics in Chemistry: Aquatic Photochemistry
4 credit(s), max credits 4, 1 repeat allowed; prereq Grad chem major or instr consent;
Instructor: McNeill, Kristopher
Description: Student may contact the instructor or department for information.

Chicano Studies
19 Scott Hall

CHIC 1112 Introduction to Chicana/o Studies: Critical Paradigms
3 credit(s); prereq 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;
Instructor: Bueno, Marianne M.
Description: 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.

CHIC 1275 Service Learning in the Chicano/Latino Community
3 credit(s); 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;
Instructor: Ganney, Kathleen Marie
Description: 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, social challenges faced by immigrants, and current legislation to create change. In this course students will be called upon to problematize and think critically about “service” A portion of class discussions will focus on the concept of service and what place it has in society.
Style: 20% Lecture, 40% Discussion. present. Web-CT
Grading: 20% reports/papers, 10% class presentation, 10% problem solving, 50% other evaluation. tutoring at community site

CHIC 3213 Chicano Music and Art
A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Covarrubias, Alexandra Mendoza
Description: What do rancheras, Tejana/o music, images of la Virgen de Guadalupe, pa’o and envelope art, and airbrushed lowriders say about Chicanos? How have Chicanos expressed their particular social location through murals, posters, tattoos, folk and fine art? How have Chicanos influenced punk rock? These questions and more will be answered as we focus on Chicano music and art from the 1950s to the present. Students will learn to situate artistic expression in its various forms within a larger historical, political and cultural context. We will explore the various ways in which art and music both reflect and shape Chicano culture and the impact Chicano culture has outside of the Chicano community.
Style: 25% Lecture, 15% Film/Video, 35% Discussion, 25% Student Presentation.
Grading: 30% reports/papers, 50% reflection paper, 10% in-class presentation, 10% class participation.

CHIC 3223 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: Blake, Debra J
Description: This course examines the unique process of racialization and identity construction in the history of American cinematography. Film, like most art forms, inevitably involves meditations on personal and national identity. American film is particularly distinguished for its racialized construction of America and Americans. While cinematic discourses on race are controversial?especially the more overtly racist views in early twentieth-century film?these discourses on race also are complex and change dramatically over time. This course is designed so that students will come to realize the importance of analyzing films as texts that illuminate deeply held beliefs around race, class, ethnicity, gender and national origin. It examines the enduring stereotypes of Chican@ and Latin@ that appear in mainstream media productions, (primarily film focused on Mexican Americans, but also including Puerto Rican, Central American, and Cuban American cinema). We will also explore attempts by Latin@ filmmakers to subvert these images and present more complex characters and a multi-focal understanding of Chican@ and Latin@ history, experience and culture. Chican@/Latin@ film will be studied as a form of cultural representation and insider communication. Students will learn the basics of film theory and criticism, an overview of cinematic history, and the socio-historical context for analyzing each film so that they can better understand the politics of representation. As they learn to interpret for meaning, students will begin to see...
media production as a means of socialization rather than just as an art or entertainment form. We will also discuss the role of film as a political tool in social movements. Students will learn how to evaluate and interpret moving images, visual symbols, and the narrative of cinema as an art form, but also as a means of (re)constructing and maintaining an ethnic identity. This will include discussion of the burden of representation that is placed on Chicano and Latinx filmmakers, screenwriters, and actors. 

**Style:** 15% Lecture, 50% Film/Video, 15% Discussion, 5% Small Group Activities, 5% Student Presentation.

**Grading:** 10% mid exam, 15% quizzes, 35% written homework, 15% reflection paper, 15% in-class presentation, 10% class participation.

**Exam Format:** In class midterm, one essay question

**CHIC 3275 Service Learning in the Chicano/Latino Community**

**Credit(s):** Credit will not be granted if credit has been received for: CHIC 1275; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme; 

**Instructor:** Ganley, Kathleen Marie

**Description:** 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 "service." 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**

**CHIC 3374 Migrant Farmworkers in the U.S.: Families, Work, and Advocacy**

**Credit(s):** Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; 

**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 will 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. Fulfils 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 3446 Chicana/o History II: WWII, El Movimiento, and the New Millenium**

**Credit(s):** Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; 

**Instructor:** Bueno, Marianne M.

**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 Chicana/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 Chicana/os.

**CHIC 3507W Introduction to Chicana/o Literature**

**Credit(s):** Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; 

**Instructor:** Torres PhD, Eden E.

**Description:** This is an introductory course exploring the rich spectrum of literary styles and perspectives of Chicana/o writers. We will look at various cultural, intellectual, and socio-political traditions as they are represented and creatively expressed. Various genres or forms, (including novels, short stories, drama, &/or poetry), will be read and analyzed for their significance and meaning as cultural production as well as representations of Mexican American experience and intellectual thought in the US. We will combine an engaging and diverse selection of renowned and new Chicana/o authors with discussion-based class periods, writing exercises, and learning activities to gain a greater understanding of the social locations and political perspectives of the authors. Students will be encouraged to place these works in their cultural and historical context. This exploration should enable students to better appreciate these vibrant contributions to American and world literatures.

**Style:** 15% Lecture, 70% Discussion, 10% Small Group Activities, 5% Student Presentation.

**Grading:** 30% reports/papers, 40% reflection paper, 5% in-class presentation, 25% class participation.

**CHIC 3771 Latino Social Power and Social Movements in the U.S.**

**Credit(s):** 

**Instructor:** Martinez, Richard E

**Description:** This course covers the following: theories of social power; theories of social movements; resistance by Latinos in the U.S. with an emphasis on student protests; civil disobedience; current movements in the U.S. including immigrant rights; war/anti-war; global and local neoliberalism. This course is divided into two main sections: theory and practice. Theory gives you tools to understand. Practice gives you skills to change things. A variety of teaching methods will be used such as lecture, discussion, guest speakers, in-class small group activities, games, documentary films, and more. Grades will be determined by numerous short assignments and short quizzes. This course will use the sociological approach, and much of the readings will come from the field of sociology.

**CHIC 3900 Topics in Chicano Studies**

**Credit(s):** max credits 6; 

**Instructor:** Esparza, Nubia Nelly

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

**CHIC 3993 Directed Studies**

**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 3993 Directed Studies**

**Credit(s):** max credits 16, 16 repeats allowed; prereq instr consent;
Instructor: Martinez, Richard E
Description: Student may contact the instructor or department for information.

CHIC 4231 The Color of Public Policy: African Americans, American Indians, and Chicanos in the United States
3 credit(s); Credit will not be granted if credit has been received for: AFRO 4231.
Instructor: Brewer, Rose Marie
Description: This course is designed to familiarize students with the history of U.S. public policy development and social relations across racial-ethnic-nation cultures. The focus will be on the United States, but recent developments from the global context will be incorporated for comparative purposes. In this course we will examine the structural and institutional conditions through which people of color have been systematically marginalized, and how diverse populations have fought for and won or lost policy change. The course will help students better understand and interpret the "dominant paradigm" in which public policy has been set. Then, we will examine how and why this paradigm has shifted over time, and what the current prospects are for policy transformation in the domestic and global arenas.
Style: 20% Lecture, 40% Discussion. community research
Grading: 20% final exam, 30% reports/papers, 20% class participation, 30% other evaluation. community research
Exam Format: take-home

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 will 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. Fulfill 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.

CHIC 5993 Directed Studies
1-3 credit(s), max credits 16, 16 repeats allowed; prereq instr consent;
Instructor: Martinez, Richard E
Description: Student may contact the instructor or department for information.

Child Psychology
104 Child Development

CPSY 1905 Freshman Seminar: Child Psychologists Confront the Real World
3 credit(s), max credits 6; prereq Fr.;
Instructor: Pick Jr., Herbert L
Description: Developmental Knowledge and the Real World of Children Everyone thinks of child psychologists working in the clinic or perhaps in family therapy sessions in the home. What is less known or thought about is the role of academic knowledge in real life settings where children spend their time. Consider how much time children spend in sports activities or on the playground. What is involved in children mastering the social relations of teams, learning the rules of the game, and the ethics of sportsmanship. Consider the disruption of a child's life when placed in an institution and/or adopted. This can be exacerbated or moderated by changing cultures at the same time as with the Romanian adoptees. How is a child's life affected by illnesses involving hospitalization? What does a child get out of trips to the Children's Museum? All these situations and many more are fertile ground for both actual intervention and research studies by child psychologists and others concerned with the well being and development of children. The goal of this seminar is to examine the function of developmental knowledge in such settings by a combination of reading, discussion, guest lectures by experts, and field trips. Some of the seminar guests have been trained in child or developmental psychology. Others have expertise in other areas of importance to children's development in the real world. Some are interacting with children on a day to day basis. The work of others impacts children in a less direct fashion.
Style: 10% Lecture, 13% Discussion, 2% Student Presentation, 25% Field Trips, 50% Guest Speakers.
Grading: 25% final exam, 35% reports/papers, 10% in-class presentation, 30% class participation.

CPSY 2301 Introductory Child Psychology
4 credit(s); prereq 4 cr intro psych; Meets CLE req of Social Science Core;
Instructor: Maratsos, Michael P
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: Herbers, Janette E
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: Cutili, JJ
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: Warren, Henriette
Description: This undergraduate survey course will examine social and cognitive development from the prenatal period through adolescence. The major goals include fostering an understanding of the usefulness of a developmental approach to psychological issues, and familiarizing students with current research and methodology in child psychology. This course emphasizes normal physical, cognitive, emotional, and social development. Class sessions will include a mixture of lectures, discussion, videos, and group activities.
Style: 80% Lecture, 10% Discussion. instructional videos
Grading: 50% mid exam, 20% final exam, 15% reports/papers, 5% class participation, 10% laboratory evaluation.
Exam Format: multiple choice

CPSY 2301 Introductory Child Psychology
4 credit(s); prereq 4 cr intro psych; Meets CLE req of Social Science Core;
Instructor: Gower, Amy L
Description: Student may contact the instructor or department for information.

The information is accurate as of 9/15/2008 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.
CPSY 2301 Introductory Child Psychology
4 credit(s); prerequisite 4 cr intro psych; Meets CLE req of Social Science Core;
Instructor: Mathieson, Lindsay Catherine
Description: Student may contact the instructor or department for information.

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Maratosos, Michael P
Description: Student may contact the instructor or department for information.

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Herbers, Janette E
Description: Student may contact the instructor or department for information.

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Mathieson, Lindsay Catherine
Description: Student may contact the instructor or department for information.

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Warren, Henriette
Description: This undergraduate survey course will examine social and cognitive development from the prenatal period through adolescence. The major goals include fostering an understanding of the usefulness of a developmental approach to psychological issues, and familiarizing students with current research and methodology in child psychology. This course emphasizes normal physical, cognitive, emotional, and social development. Class sessions will include a mixture of lectures, discussion, videos, and group activities.
Style: 80% Lecture, 10% Discussion. instructional videos
Grading: 40% mid exam, 20% final exam, 30% reports/papers, 5% class participation, 10% laboratory evaluation.
Exam Format: multiple choice

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Gower, Amy L
Description: Student may contact the instructor or department for information.

CPSY 3301 Introductory Child Psychology for Social Sciences
4 credit(s);
Instructor: Mathieson, Lindsay Catherine
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); prerequisite 2301, Psy 1001;
Instructor: Sera PhD, Maria D
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); prerequisite 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); prerequisite CPsy honors student;
Instructor: Plunkett, Elizabeth Anne
Description: Student may contact the instructor or department for information.

CPSY 4303 Adolescent Psychology
A-F only, 4 credit(s); prerequisite 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 4310 Special Topics in Child Psychology: Measuring Face Perception in Children with ASD
3 credit(s), max credits 12, 3 repeats allowed; prerequisite 2301;
Instructor: Yonas, Albert
Description: CPsy. 4310- Special Topics in Child Psychology Seminar. 10:10 AM to 12:30 PM, Wednesdays, ChildDev 172 TCEASTBANK, Yonas, Albert, 3 credits, instructors consent required Measuring Face Perception in Children with Autism Spectrum Disorders (ASD) The seminar will be for honors students and other undergraduates who are planning to or graduate school. The class will be small, 16 students, and be run as a group discussion rather than a set of lectures presented by the instructor. It will deal with research on the diagnoses of ASD using new tests of face processing. The class will also cover new intervention techniques that have been created to help children with ASD and prosopagnosia (face blindness) become better at perceiving and remembering faces. We will create a manual for using a new methods of training children to attend to faces and adapt a second method that created and used to help adults for use with young children. Students will need my permission to register for the class. You can call me at 612-624-6805 to get permission from me and email me at yonas@umn.edu. The class will meet once a week on Wednesdays for 2 and 1/2 hours starting at 10:10 AM.
Style: 80% Discussion, 20% Small Group Activities, 20% Student Presentation.
Grading: 40% special projects, 20% in-class presentation, 40% class participation.

CPSY 4313 Disabilities and Development
4 credit(s); prerequisite Psy 1001;
Instructor: Abern, 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: Onna M 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: Abbery, Brian Hinton
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: Haydon, KC
Description: Student may contact the instructor or department for information.

CPSY 4343 Cognitive Development
A-F only, 3 credit(s); prereq 2301;
Instructor: Carlson, Stephanie M
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: Millett, Katherine Gordon
Description: Student may contact the instructor or department for information.

CPSY 4347W Senior Project
A-F only, 2 credit(s); prereq CPsy sr; Meets CLE req of Writing Intensive;
Instructor: Sesma Jr, Arturo
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: Haydon, KC
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: Haydon, KC
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: Haydon, KC
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: Haydon, KC
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: Haydon, KC
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: Haydon, KC
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: Haydon, KC
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: Haydon, KC
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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.
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: 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 4986 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 4986 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 5503 Foundations in Infant and Early Childhood Mental Health II
A-F only, 3 credit(s); prereq 5501;
Instructor: Schultz, Susan Kristine
Description: Student may contact the instructor or department for information.

CPSY 5506 Infant Observation Seminar I
OPT No Aud, 1 credit(s); prereq 5501, instr consent;
Instructor: Schultz, Susan Kristine
Description: Student may contact the instructor or department for information.

CPSY 5302 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 5321 Seminar: Current Issues in Teaching Developmental Psychology
1 credit(s), max credits 2; prereq CPsy doctoral student or instr consent;
Instructor: Sroufe, L. Alan
Description: Student may contact the instructor or department for information.

CPSY 8360 Seminar: Developmental Psychology
1-3 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 Seminar: Developmental Psychology
1-3 credit(s), max credits 21, 7 repeats allowed; prereq Doctoral student;
Instructor: Masten, Ann S
Description: Student may contact the instructor or department for information.

CPSY 8360 Seminar: Developmental Psychology
1-3 credit(s), max credits 21, 7 repeats allowed; prereq Doctoral student;
Instructor: Thomas, Kathleen M
Description: Student may contact the instructor or department for information.

CPSY 8360 Seminar: Developmental Psychology
1-3 credit(s), max credits 21, 7 repeats allowed; prereq Doctoral student;
Instructor: Weinberg, Richard A
Description: Student may contact the instructor or department for information.

CPSY 8360 Seminar: Developmental Psychology
1-3 credit(s), max credits 21, 7 repeats allowed; prereq Doctoral student;
CPSY 8606 Advanced Developmental Psychopathology
3 credit(s); prereq Doctoral student or instr consent;
Instructor: Ge,Xiaoja
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 PhD,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: Yonas,Albert
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.

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 PhD,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.

CPSY 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 15, 15 repeats allowed; prereq
Doctoral student or instr consent;
Instructor: Karatekin,Canan
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: Vinokur,Elaine
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 PhD,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: Sroufe,L Alan
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: Vinokur,Elaine
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 PhD,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: Sroufe,L Alan
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: Vinokur,Elaine
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: 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: Koenig,Melissa
Description: Student may contact the instructor or department for information.

CAPY 5673 Prevention Programming: Learning the Skills to Implement a Preventive Intervention
S-N only, 1 credit(s);
Instructor: Bloomquist PhD,Michael Leonard
Description: Student may contact the instructor or department for information.

CAPY 5674 Serious Emotional Disturbance in Children and Adolescents
S-N only, 1 credit(s);
Instructor: August,Gerald
Description: Student may contact the instructor or department for information.

China Executive MBA

CHMB 5810 International Environment
A-F only, 3 credit(s);
Instructor: Zaheer,Sri
Description: Student may contact the instructor or department for information.

Chinese
453 Folwell Hall

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: Stone,Jin YaLiang
Description: Student may contact the instructor or department for information.

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, 20% laboratory evaluation, 15% other evaluation. Tests: 5% Homework: Characters; 10% Tapes; 10% Written; 5% Vocabulary Quizzes
Exam Format: Listening, speaking, reading and writing

This information is accurate as of 9/15/2008 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.
approximately one lesson every three days. Students should be ready to take the Chinese GPT and/or third year Chinese after this course.

**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 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, Chinese poems and to learn the literature and meaning of 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

**Instructor:** Zhang, Hong

**Description:** This is the second semester of a two-semester sequence in Chinese Calligraphy. The course is designed for those who have completed CHN 3021. Students with Chinese Calligraphy background may also enroll with the permission of the instructor. The knowledge of Chinese language is NOT required. Students will learn more advanced techniques relating to the structure and composition of Chinese characters. The regular script type of Chinese calligraphic style will be taught. Students are introduced to Chinese culture with varied Chinese classical poems and couplets. Students will also have the opportunity to learn the literature and meaning of the Chinese Couplets and Poems project. By the end of this course, students will be able to appreciate the art of Chinese Calligraphy. The calligraphy book written by the instructor will be used in this course.

**Style:** 30% Lecture, 5% Discussion, class room practice with instructor's coaching students individually.

**Grading:** 50% class participation, 50% other evaluation. homework assignments and special projects

This course, the second segment of a 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).

**Instructor:** Stone, Jin YaLiang

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

**CHN 4002 Beginning Modern Chinese**

3 credit(s); prereq 4001, grad student; Credit will not be granted if credit has been received for: CHN 1012;

**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, 20% laboratory evaluation, 15% other evaluation. Tests; 5% Homework: Characters; 10% Tapes; 10% Written; 5% Vocabulary Quizzes

**Exam Format:** Listening, speaking, reading and writing
CHN 4008 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 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.
Style: 30% Lecture, 70% Discussion.
Grading: 20% mid exam, 20% final exam, 20% quizzes, 20% written homework, 10% in-class presentation, 10% class participation.
Exam Format: multiple choice, fill the blanks, complete the sentences, etc.

CHN 4042 Advanced Readings in Modern Chinese
4 credit(s); prereq 3032 or instr consent;
Instructor: Wang, Ling
Description: This course will expose advanced students to various Chinese writings and improve their ability to read Chinese articles, short stories, and essays in the original. We will study Chinese writings on various topics in modern China during the first half of the twentieth century, especially in the 1920s and 1930s, a time when the pros and cons of Chinese culture was under heated discussion. The aspects of Chinese culture covered in this course, among others, include the May 4th Movement, religion, filial piety, ancestral worship, Chinese characteristics, and male and female positions at home and in society. The genres of these writings include essays, short stories, newspapers, extracts of novels, and films. 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
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq 4042 or equiv or instr consent;
Instructor: Zou, Zhen
Description: Student may contact the instructor or department for information.

CHN 5212 Introductory Classical Chinese
3 credit(s); prereq 3111 or 5211 or instr consent;
Instructor: Rouzer, Paul F
Description: Student may contact the instructor or department for information.

CHN 5393 Directed Study
1-5 credit(s), max credits 18, 18 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Allen, Joseph H
Description: Student may contact the instructor or department for information.

CHN 5393 Directed Study
1-5 credit(s), max credits 18, 18 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: McGrath, Jason
Description: Student may contact the instructor or department for information.

CHN 5393 Directed Study
1-5 credit(s), max credits 18, 18 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Rouzer, Paul F
Description: Student may contact the instructor or department for information.

CE 5 Refresher Course for Civil Engineers
S-N only, 0 credit(s); prereq BCE or equivalent degree or completion of Parts I and II of the State Board Examination;
Instructor: Labuz, Joseph F
Description: Student may contact the instructor or department for information.

CE 1101 Civil Engineering Orientation
S-N only, 1 credit(s);
Instructor: Labuz, Joseph F
Description: Student may contact the instructor or department for information.

CE 3101 Computer Applications in Civil Engineering I
A-F only, 3 credit(s); prereq Math 1272, IT;
Instructor: Hill, Kimberly M.
Description: Student may contact the instructor or department for information.

CE 3102 Uncertainty and Decision Analysis in Civil Engineering
A-F only, 3 credit(s); prereq [Math 1371, Math 1372] or equiv;
Instructor: Barnes, Randall J
Description: Student may contact the instructor or department for information.

CE 3111 CADD for Civil Engineers
S-N only, 2 credit(s); prereq 3201;
Instructor: Johnson, Ann M
Description: Student may contact the instructor or department for information.

CE 3201 Transportation Engineering
3 credit(s); prereq Phys 1301;
Instructor: Liu, Henry X.
Description: Student may contact the instructor or department for information.

CE 3301 Soil Mechanics I
A-F only, 3 credit(s); prereq IT, AEM 3031; Credit will not be granted if credit has been received for: GCEO 3301;
Instructor: Guzina, Bojan B
Description: The mechanics of soils forms the basis of geotechnical engineering involving the design of civil engineering structures such as foundations, retaining walls, dams and slopes. The course focuses on the fundamentals of soil mechanics and covers the topics such as index properties of soils and their classification, consolidation of saturated soils due to one-dimensional compression, partition of stresses between the soil particles and water, stress distribution in soil deposits due to foundation loads, permeability and seepage. Text: B.M. Das, "Fundamentals of Geotechnical Engineering."
Style: 70% Lecture, 30% Laboratory.
Grading: 27% mid exam, 30% final exam, 10% quizzes, 21% laboratory evaluation, 12% problem solving.
Exam Format: Multiple choice

CE 3401 Linear Structural Analysis
A-F only, 3 credit(s); prereq Grade of at least C- in AEM 3031, IT;
Instructor: Wojtkiewicz Jr., Steven F
Description: Student may contact the instructor or department for information.

CE 3402 Construction Materials
A-F only, 3 credit(s); prereq grade of at least C- in AEM 3031,
IT;
Instructor: Khazanovich, Lev
Description: Student may contact the instructor or department for information.

CE 3501 Environmental Engineering
A-F only, 3 credit(s); prereq Chem 1022, Phys 1302; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;
Instructor: Marshall, Julian
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, [IT or ForP major];
Instructor: Erdmann PhD, John B
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: Carlson, Randy Myrle
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: 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 4102W Capstone Design
A-F only, 4 credit(s); prereq 4301, 4401, 4501, 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.

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 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: Gulliver, John Stephen
Description: Style: 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: Geroliminis, Nikolaos
Description: Student may contact the instructor or department for information.

CE 4232 Cemented Materials
3 credit(s); prereq Upper div IT or grad, CE 3402 or instr consent;
Instructor: Marasteanu, Mihai
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: Labuz, Joseph F
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: Carranza-Torres, Carlos M
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: French, Catherine Ellen
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: Shield, Carol K
Description: Student may contact the instructor or department for information.

CE 4501 Hydrologic Design
CE 4020 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, introduction to the principles of unsteady one-dimensional flows in open channels problems.  
Style: 75% Lecture, 23% Discussion, 2% Demonstration.  
Grading: 25% mid exam, 35% final exam, 20% reports/papers, 20% written homework.

CE 4561 Solid Hazardous Wastes  
3 credit(s); prereq IT or grad, Chem 1022, 3501 or instr consent;  
Instructor: Novak,Paige J  
Description: The target audiences for this course are upper-level undergraduate and graduate students in technical majors. The course covers the characterization of solids hazards wastes, regulations, waste minimization and resource recovery, chemical, physical, biological, and thermal waste treatment, and disposal practices. The course will include several field trips to waste treatment and disposal facilities.  
Style: 70% Lecture, 10% Discussion. Group problems and field trips.  
Grading: 40% mid exam, 20% final exam, 20% reports/papers, 20% problem solving.  
Exam Format: Problem and short answer/discussion.

CE 5180 Special Topics  
A-F only, 2 credit(s), max credits 4, 3 repeats allowed; prereq instr consent;  
Instructor: Davis,Gary Arnold  
Description: Student may contact the instructor or department for information.

CE 5211 Traffic Engineering  
3 credit(s); prereq 3201, Stat 3021 or equiv;  
Instructor: Geroliminis,Nikolas  
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: Capel,Paul David  
Description: Student may contact the instructor or department for information.

CE 5581 Water Resources: Individuals and Institutions  
A-F only, 3 credit(s); prereq 3001 or instr consent;  
Instructor: Baker,Lawrence Alan  
Description: Student may contact the instructor or department for information.

CE 8094 Civil Engineering Research  
1-4 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;  
Instructor: Hondzo,Miki  
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: Levinson,David M  
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 field that may be appropriate for future thesis/professional paper.

CE 8215 Transportation Data Analysis  
3 credit(s); prereq [8210 or 8211], [STAT 5021 or equiv];  
Instructor: Davis,Gary Arnold  
Description: Student may contact the instructor or department for information.

CE 8233 Advanced Bituminous Materials Characterization  
3 credit(s); prereq [3402, grad student] or instr consent;  
Instructor: Marasteau,Mihai  
Description: Student may contact the instructor or department for information.

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: Labuz,Joseph F  
Description: Student may contact the instructor or department for information.

CE 8361 Engineering Model Fitting  
A-F only, 3 credit(s); prereq IT grad student or instr consent;  
Instructor: Barnes,Randal J  
Description: Student may contact the instructor or department for information.
Classical and Near Eastern Studies
245 Nicholson Hall

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for information.

CE 8400 Seminar: Structures
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;
Instructor: Okazaki, Taichiro
Description: Student may contact the instructor or department for information.

CE 8401 Fundamentals of Finite Element Method
A-F only, 3 credit(s); prereq 4411 or instr consent;
Instructor: Stolarski, Henryk Konstanty
Description: Student may contact the instructor or department for information.

CE 8431 Structural Stability
A-F only, 3 credit(s); prereq IT student or instr consent;
Instructor: Shield, Carol K
Description: Student may contact the instructor or department for information.

CE 8441 Ductile Behavior of Steel Structures
A-F only, 3 credit(s); prereq 4411 or equiv;
Instructor: Okazaki, Taichiro
Description: Student may contact the instructor or department for information.

CE 8500 Environmental Seminar
S-N only, 1 credit(s), max credits 3, 3 repeats allowed;
prereq grad CE major or instr consent;
Instructor: Arnold, Bill
Description: Student may contact the instructor or department for information.

CE 8504 Theory of Unit Operations
A-F only, 4 credit(s); prereq 4541, 4531;
Instructor: Hozalski, Raymond M
Description: Student may contact the instructor or department for information.

CE 8521 The Atmospheric Boundary Layer
A-F only, 4 credit(s); prereq IT or COAFES grad student or instr consent;
Instructor: Porte-Agel, Fernando
Description: Student may contact the instructor or department for information.

CE 8561 Analysis and Modeling of Aquatic Environments I
A-F only, 3 credit(s); prereq One sem grad work or instr consent;
Instructor: Stefan, Heinz G
Description: Student may contact the instructor or department for information.

CE 8572 Computational Environmental Fluid Dynamics
A-F only, 4 credit(s); prereq grad student in IT or COAFES or instr consent;
Instructor: Sotiropoulos, Fotis
Description: Student may contact the instructor or department for information.

CE 8581 Research and Professional Ethics in Water Resources and Environmental Science
S-N only, 0.5 credit(s); prereq [Environmental engineering or water resource science] grad student or instr consent;
Credit will not be granted if credit has been received for: CE 8442;
Instructor: Novak, Paige J
Description: Student may contact the instructor or department for information.

CNES 1003 World of Rome
3 credit(s); prereq credit will not be granted if credit received for: CLAS 1007; Meets CLE req of Historical Perspective Core;
Instructor: Nappa, Christopher
Description: Rome started out as a small group of hillside villages, went on to control much of the land surrounding the Mediterranean Sea, and ended up setting the stage for much of later western history. This course is a (loosely) chronological survey of the cultural achievements (and problems) of the ancient Romans starting with the origins of the city in the 8th century BC and ending with the fall of the western empire in the 5th century AD. We'll proceed whenever possible by reading original texts and by looking at images of ancient art, archaeological sites, and later buildings and artifacts that draw heavily on ancient Rome. Among other things, we'll cover the gladiatorial games, the destruction of Pompeii, the development of public spaces, the persecution of the early Christians, and works of literature by Julius Caesar, Cicero, Vergil, Augustine, and others. We'll also pay attention to such mundane matters as clothing, hygiene, and family relationships. Along the way we'll encounter sober-minded statesmen, lovesick poets, emperors (good and bad), gladiators, saints, soldiers, and the occasional martyr. We'll also explore the many ways in which the civilization of ancient Rome is alive, for better or worse, today.
Style: 85% Lecture, 15% Discussion.
Grading: 40% mid exam, 30% final exam, 30% journal.
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: CLAS 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 3008 History of Ancient Art
4 credit(s); Credit will not be granted if credit has been received for: ARTH 3008; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Cooper, Frederick A
Description: Student may contact the instructor or department for information.

CNES 3035 Classical Myth in Western Art
4 credit(s); prereq credit will not be granted if credit received for: CLAS 3035; Credit will not be granted if credit has been received for: ARTH 3035; Meets CLE req of Other Humanities Core;
Instructor: Mc Nally, Sheila J
Description: Student may contact the instructor or department for information.

CNES 3071 Greek and Hellenistic Religions
3 credit(s); Credit will not be granted if credit has been received for: ARTH 3071; Meets CLE req of Other Humanities Core;
Instructor: Nappa, Christopher
Description: An introduction to Greek and Hellenistic religious beliefs and practices. We will trace the development of religious beliefs from the prehistoric period through the emergence of the Hellenistic kingdoms. We will also consider the impact of Greek ideas on the religions of the Roman Empire. We will also discuss the role of religion in the political and social life of the ancient Greeks and Romans.
Style: 50% Lecture, 50% Discussion.
Grading: 40% mid exam, 30% final exam, 30% journal.
Exam Format: short answer and essay

This information is accurate as of 9/15/2008 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.
CNES 3072 The New Testament
3 credit(s); prereq: - CLAS 3072; Credit will not be granted if credit has been received for: CNES 5072; Meets CLE req of Historical Perspective Core;
Instructor: Roetzel, Calvin J
Description: Was Jesus a Christian or a Jewish prophet? Did later interpreters distort the simple religion of this Galilean charismatic teacher who spoke of the essence of a true religion? Was Paul an anti-feminist or a woman’s liberationist? Was he an anti-Semitic or a Jew on the margins and one of the most creative thinkers of the early Jesus movement? How did the early church select its scriptures for a New Testament? And why and how were only four gospels selected and many others excluded? These and other questions we will pose in this historical study of the New Testament in its Graeco-Roman and Jewish context. The course will emphasize the nature and variety of religious expression in the early Church; it will treat the gospels in their historical setting, and it will study selected heated discourses between Paul and his churches in a treatment of his letters as conversations. It will also deal with some early interpreters of the New Testament and will consider the message of Revelation for a persecuted church. The course will finally sample texts from the Gnostic Gospels of the second century.
Style: 75% Lecture, 25% Discussion.
Grading: 20% final exam, 10% special projects, 70% quizzes.
Exam Format: 30% multiple choice, 70% essay

CNES 3077 Religious Violence in the Early Roman Empire: Jews, Christians, and Pagans
3 credit(s); Credit will not be granted if credit has been received for: CNES 5077;
Instructor: Roetzel, Calvin J
Description: In recent decades, the relationship between religion and violence has become an increasingly pressing subject of public discourse. These contemporary discussions of ?religious violence? have their roots in the culture and religious traditions of the ancient Mediterranean and Near Eastern world, and indeed may be said to represent a direct continuation of the traditions of the ancient Mediterranean and Near Eastern world, and may be said to represent a direct continuation of the traditions of the ancient Mediterranean and Near Eastern world. We study the use of architectural space to define and express divisions between sacred and profane. The visual arts are of central importance, to help us both “see” these foreign or familiar gods and goddesses and heroes and heroines, as well as ‘query’ the ordering principles they represent. Sculpture, vase painting, gems, and coins are all brought into the picture.
Style: 85% Lecture, 10% Discussion, 5% Field Trips.
Grading: 15% mid exam, 20% final exam, 45% reports/papers, 5% special projects, 15% additional semester exams.
Exam Format: Brief IDs and short answer questions; one essay.

CNES 3202 Prophecy in Ancient Israel
3 credit(s); prereq 1001 or 1201 or 3201 or RELA 3201 or instr consent ; Credit will not be granted if credit has been received for: RELA 3202; Meets CLE req of Literature Core;
Instructor: Stackert, Jeffrey R
Description: This course will examine the idea, practice, and literature of prophecy in the Hebrew Bible and contextualize these issues by comparing biblical prophecy with its ancient Near Eastern analogues. Students will read and analyze biblical and extra-biblical prophetic texts as well as other texts related to prophecy in order to understand the purposes of ancient Near Eastern prophecy as well as the practices of the prophets themselves (such as analogical ritual performance, divination, and magic). The issues of the preservation of prophetic literature as well as the cessation of prophecy in ancient Israel will also be explored. This course is especially relevant to students with an interest in religious studies, Jewish studies, ancient civilizations, or the Bible more generally. Requirements for the course include two (short) papers, quizzes related to assigned readings, a midterm examination, and a final examination.
Style: 80% Lecture, 20% Discussion.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% quizzes.
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CNES 5077 Religious Violence in the Early Roman Empire: Jews, Christians, and Pagans
3 credit(s); Credit will not be granted if credit has been received for: CNES 3077;
Instructor: Roetzle, Calvin J
Description: In recent decades, the relationship between religion and violence has become an increasingly pressing subject of public discourse. These contemporary discussions of religious violence?have their roots in the culture and religious traditions of the ancient Mediterranean and Near Eastern world, and indeed may be said to represent a direct continuation of the inter-group interactions, competition, and, at times, outright antagonism that characterized these societies. Yet, the complexity of this history is too often underestimated or overlooked in the current climate ?to the detriment of both historical analysis and mutual understanding. To address that need this course will consider different methodological strategies for understanding discourses of violence, and will compare different religious traditions. The class will explore ways those traditions shape ethnic identity and practices and views of sacrifice, martyrdom, spectacles of violence, apocalyptic ideologies of violence, state persecution, texts and terror, and holy war in the early Roman Period. By examining this rich tapestry of cultures within a comparative framework and exploring ways that people operating within distinct religious traditions thought about and, in some cases, participated in acts of violence, the course hopes to seek a better understanding of the genealogy of the religious violence?that continues to have a profound impact on our world today.

CNES 5112 Archaic and Classical Greek Art
3 credit(s); prereq Jr, Clas/ArtH 5111;
Instructor: Berlin, Andrea
Description: In this course we study the development and transformation of artistic production in Greece from the 8th through the 4th centuries B.C.E. Sculpture evolves from simple, schematic figurines to life-size marble sculpture; painting moves from small, silhouette figures to the complex refinements of black and red figure vases. As artists learn to convey every variety of human action and emotion, art itself takes on a new communicative role in Greek society. In-class discussions will address topics such as the relationship between literacy and pictorial representation, the meaning of size-life human sculpture, usage of painted pottery, the message of architectural sculpture, the political function of art, changes in funerary sculpture, and the intersection of high art and daily life.

CNES 5993 Directed Studies
1-4 credit(s), max credits 12, 4 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Smith, Stephen
Description: Student may contact the instructor or department for information.

Clinical Laboratory Science
D-242 Mayo (Box 609 UMHC)

CLS 5064 Introduction to Clinical Immunohematology.
A-F only, 2 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: MEDT 4064;
Instructor: George, Joanna L
Description: Student may contact the instructor or department for information.

CLS 5065 Introduction to Clinical Immunohematology: Laboratory
A-F only, 2 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: MEDT 4065;
Instructor: George, Joanna L
Description: Student may contact the instructor or department for information.

CLS 5090 Special Laboratory Methods
A-F only, 1-2 credit(s), max credits 2, 1 repeat allowed; prereq instr consent; Credit will not be granted if credit has been received for: MEDT 4090;
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; Credit will not be granted if credit has been received for: MEDT 4100;
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: Panoskaltsis-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: Panoskaltsis-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 5127 Introduction to Management and Education I
A-F only, 1 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: MEDT 4127W;
Instructor: Wiesner, Stephen Michael
Description: Student may contact the instructor or department for information.

CLS 5252 Hematology II: Morphology and Correlation
A-F only, 2 credit(s); prereq 5251 or MedT 4251; Credit will not be granted if credit has been received for: MEDT 4252;
Instructor: Swinehart, Cheryl D
Description: Student may contact the instructor or department for information.

CLS 5253 Hemostasis
A-F only, 1 credit(s); prereq 5251 or MedT 4251; Credit will not be granted if credit has been received for: MEDT 4253;
Instructor: Swinehart, Cheryl D
Description: Student may contact the instructor or department for information.

CLS 5320 Clinical Chemistry II: Lecture
A-F only, 2 credit(s); prereq organic chem course with lab, biochem course, 5310 or MedT 4310, instr consent; Credit will not be granted if credit has been received for: MEDT 4320;
Instructor: Spannaus-Martin, Donna J
Description: Student may contact the instructor or department for information.

CLS 5321 Clinical Chemistry II: Laboratory Applications
A-F only, 2 credit(s); prereq organic chem course with lab, biochem course, 5310 or MedT 4310, instr consent; Credit will not be granted if credit has been received for: MEDT 4321;
Instructor: Panoskaltsis-Mortari PhD, Angela
Description: Student may contact the instructor or department for information.
will not be granted if credit has been received for: MEDT 4321; Instructor: Spannaus-Martin, Donna J Description: Student may contact the instructor or department for information.

COLA 5950 Topics in Collaborative Arts: Video Technology
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent; Instructor: Gwinup, Martin Bruce
Description: Student may contact the instructor or department for information.

COLA 4950 Topics in Collaborative Arts: Interdisciplinary New Media Collaborations
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent; Instructor: Geers, Doug
Description: The course investigates questions of time and time-perception as they pertain to the arts in general and to performance arts in particular. We draw on research and theoretical writing form cognitive and experimental psychology, philosophy, music theory and modern physics to study formal conceptions of the human experience of time. The bulk of the course will revolve around the study of a selected number of works of music, dance, theater, video, installations and film; works outside of film and cinema are emphasized.

COLA 5864 Research Seminar
S-N only, 1 credit(s), max credits 10, 10 repeats allowed; prereq instr consent; Instructor: Larsen, Karen B
Description: Student may contact the instructor or department for information.

COLA 5865 Departmental 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.

CLS 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.

CLS 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.

COLA 4950 Topics in Collaborative Arts: Digital Audio and MIDI for Performance
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent; Instructor: Gwinup, Martin Bruce
Description: Student may contact the instructor or department for information.

COLA 8321 Topics in Collaborative Arts: Interdisciplinary New Media Collaborations
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent; Instructor: Spannaus-Martin, Donna J
Description: Student may contact the instructor or department for information.

COLA 4950 Topics in Collaborative Arts: Art for the People, Art on Wheels
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent; Instructor: Gwinup, Martin Bruce
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 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.

Cognitive Science
205 Elliott Hall

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.

COLA 4950 Topics in Collaborative Arts: Interdisciplinary New Media Collaborations
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent; Instructor: Momemi, Ali
Description: Title: Art for the People, Art on Wheels The focus of this course is the form and function of art in our present day environment. This course will be a hands-on study of the practice of making public art as well as a historical and theoretical study of present day public art. The primary medium in this course is video; students will be asked to scavenge, edit and create video works. With the aid of various grants, we will construct a number of mobile projection units. Each of these units will be made up of a specially designed bicycle (http://flickr.com/photos/urban_data/452740396/), a generator, a laptop, a powerful projector and a control interface. The mobile units will allow us to project visuals onto our urban environment (walls, buildings, streets, trees) as a way to create a form of ephemeral art. The models for this approach are organizations like Graffiti Research Labs (http://graffitiresearchlab.com/). For Video examples of GRL’s work: http://graffitiresearchlab.com/?page_id=92#video http://graffitiresearchlab.com/?page_id=95#video

COLA 4950 Topics in Collaborative Arts: Free Jazz--From Structure to Gesture
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent; Instructor: Mazzola PhD, Guerino
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 (Sirone, 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: Interdisciplinary New Media Collaborations
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent; Instructor: Geers, Doug
Description: Student may contact the instructor or department for information.

COLA 5950 Topics in Collaborative Arts: Art for the People, Art on Wheels
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consensus; Instructor: Armstrong, Sandra K
Description: Art for the People, Art on Wheels The focus of this course is the form and function of art in our present day environment. This course will be a hands-on study of the practice of making public art as well as a historical and theoretical study of present day public art. The primary medium in this course is video; students will be asked to scavenge, edit and create video works. With the aid of various grants, we will construct a number of mobile projection units. Each of these units will be made up of a specially designed bicycle (http://flickr.com/photos/urban_data/452740396/), a generator, a laptop, a powerful projector and a control interface. The mobile units will allow us to project visuals onto our urban environment (walls, buildings, streets, trees) as a way to create a form of ephemeral art. The models for this approach are organizations like Graffiti Research Labs (http://graffitiresearchlab.com/). For Video examples of GRL’s work: http://graffitiresearchlab.com/?page_id=92#video http://graffitiresearchlab.com/?page_id=95#video

COLA 4950 Topics in Collaborative Arts: Media Collaborations
3 credit(s), max credits 32, 8 repeats allowed; prereq instr consent; Instructor: Momeni, Ali
Description: Title: Art for the People, Art on Wheels The focus of this course is the form and function of art in our present day environment. This course will be a hands-on study of the practice of making public art as well as a historical and theoretical study of present day public art. The primary medium in this course is video; students will be asked to scavenge, edit and create video works. With the aid of various grants, we will construct a number of mobile projection units. Each of these units will be made up of a specially designed bicycle (http://flickr.com/photos/urban_data/452740396/), a generator, a laptop, a powerful projector and a control interface. The mobile units will allow us to project visuals onto our urban environment (walls, buildings, streets, trees) as a way to create a form of ephemeral art. The models for this approach are organizations like Graffiti Research Labs (http://graffitiresearchlab.com/). For Video examples of GRL’s work: http://graffitiresearchlab.com/?page_id=92#video http://graffitiresearchlab.com/?page_id=95#video

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CFAN 3500 International Field Studies Seminar: Thailand A-F only, 3 credit(s); max credits 6; prereq instr consent
Instructor: Smith,James L. David
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 3500 International Field Studies Seminar: Bahamas: Marine Ecology 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 3500 International Field Studies Seminar: Bahamas: Art for the People, Art on Wheels The focus of this course is the form and function of art in our present day environment. This course will be a hands-on study of the practice of making public art as well as a historical and theoretical study of present day public art. The primary medium in this course is video; students will be asked to scavenge, edit and create video works. With the aid of various grants, we will construct a number of mobile projection units. Each of these units will be made up of a specially designed bicycle (http://flickr.com/photos/urban_data/452740396/), a generator, a laptop, a powerful project and a control interface. The mobile units will allow us to project visuals onto our urban environment (walls, buildings, streets, trees) as a way to create a form of ephemeral art. The models for this approach are organizations like Graffitti Research Labs (http://graffitiresearchlab.com/). For Video examples of GRL's work: http://graffitiresearchlab.com/?page_id=92#video

Video examples of GRL's work:

http://graffitiresearchlab.com/?page_id=92#video

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 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% final 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 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 3101H Honors Seminar: Knowing Our Place and Time A-F only, 2 credit(s), max credits 6, 3 repeats allowed; prereq [Honors, [jr or sr]] or instr consent
Instructor: Simmons,Steve Robert
Description: Student may contact the instructor or department for information.

CFAN 3500 International Field Studies Seminar: China: Land Use and Water Issues A-F only, 3 credit(s), max credits 6; prereq instr consent;
Instructor: Anderson PhD,Dorothy Helen
Description: Student may contact the instructor or department for information.

CFAN 3500 International Field Studies Seminar: Thailand A-F only, 3 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 3500 International Field Studies Seminar: Bahamas: Marine Ecology 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 3500 International Field Studies Seminar: Bahamas: Art for the People, Art on Wheels The focus of this course is the form and function of art in our present day environment. This course will be a hands-on study of the practice of making public art as well as a historical and theoretical study of present day public art. The primary medium in this course is video; students will be asked to scavenge, edit and create video works. With the aid of various grants, we will construct a number of mobile projection units. Each of these units will be made up of a specially designed bicycle (http://flickr.com/photos/urban_data/452740396/), a generator, a laptop, a powerful project and a control interface. The mobile units will allow us to project visuals onto our urban environment (walls, buildings, streets, trees) as a way to create a form of ephemeral art. The models for this approach are organizations like Graffitti Research Labs (http://graffitiresearchlab.com/). For Video examples of GRL's work: http://graffitiresearchlab.com/?page_id=92#video

http://graffitiresearchlab.com/?page_id=92#video

This information is accurate as of 9/15/2008 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.
**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: 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 $2,750. 

Dean Current leads this group to Costa Rica. Dates of travel are: 
January 6 to January 20, 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: 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, 
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Dean Current leads this group to Costa Rica. Dates of travel are: 
January 6 to January 20, 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: 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, 
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**CFAN 3900 Topics in International Agriculture**

A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; 
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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. 
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environmental programs using coffee systems and natural 
and managed forests as examples. Estimated costs $2,750. 

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January 6 to January 20, 2008.

**CFAN 3900 Topics in International Agriculture**

A-F only, 2-4 credit(s), max credits 25, 10 repeats allowed; 
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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 
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organic and bird-friendly coffee, cocoa and banana plantations. 
Students learn about payment for environmental services, 
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environmental programs using coffee systems and natural 
and managed forests as examples. Estimated costs $2,750. 

Dean Current leads this group to Costa Rica. Dates of travel are: 
January 6 to January 20, 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: 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, 
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environmental programs using coffee systems and natural 
and managed forests as examples. Estimated costs $2,750. 

Dean Current leads this group to Costa Rica. Dates of travel are: 
January 6 to January 20, 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: 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, 
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environmental programs using coffee systems and natural 
and managed forests as examples. Estimated costs $2,750. 

Dean Current leads this group to Costa Rica. Dates of travel are: 
January 6 to January 20, 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: 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 $2,750. 

Dean Current leads this group to Costa Rica. Dates of travel are: 
January 6 to January 20, 2008.
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 5500 International Field Studies Seminar: Costa Rica**
A-F only, 3 credit(s); prereq instr consent

**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); prereq instr consent

**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: Thailand**
A-F only, 3 credit(s); prereq instr consent

**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 to 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.

**Communication Studies**
225 Ford Hall

**COMM 3110 Topics in Speech-Communication:**

**Famous Speeches**
3 credit(s), max credits 15, 5 repeats allowed; prereq [3211 or 3401 or 3601 whichever is relevant to topic];

**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 to 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

**COMM 3110 Topics in Speech-Communication:**

**Communication and Emotion**
3 credit(s), max credits 15, 5 repeats allowed; prereq [3211 or 3401 or 3601 whichever is relevant to topic];

**Description:** This course will examine the importance, function, and relevance of emotional experience and expression in interpersonal communication. We will a) define emotions, b) examine fundamental approaches to the study of emotion in social psychology and communication, and c) explore the impact of emotions on various relational contexts and functions (e.g., courting, supporting, deceiving).

**Style:** 50% Lecture, 20% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Field Trips.

**Grading:** 10% mid exam, 10% final exam, 20% reports/papers, 20% special projects, 15% quizzes, 15% additional semester exams, 10% reflection paper.

**COMM 3110 Topics in Speech-Communication:**

**History of Hollywood**
3 credit(s), max credits 15, 5 repeats allowed; prereq [3211 or 3401 or 3601 whichever is relevant to topic];

**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 to 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**

- **3 credit(s), max credits 15, 5 repeats allowed; prereq [3211 or 3401] or 3601 [whichever is relevant to topic];**
- **Instructor:** Helwich, David A

**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:** Vavrus, Mary Douglas

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

**COMM 3263 Media Literacy: Decoding Media Images and Messages**

- **A-F only, 3 credit(s);**
- **Instructor:** Nadler, Anthony M

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

**COMM 3263 Media Literacy: Decoding Media Images and Messages**

- **A-F only, 3 credit(s);**
- **Instructor:** Wilson, Julie Ann

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

**COMM 3401 Introduction to Communication Theory**

- **3 credit(s); prereq 1101;**
- **Instructor:** Grayden, Elizabeth D

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

**COMM 3409 Nonverbal Communication**

- **3 credit(s);**
- **Instructor:** Jones, Susanne Margarethe

**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 (kinestics). 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 3441 Introduction to Organizational Communication**

- **3 credit(s); prereq 1101 or equiv;**
- **Instructor:** Mc Arthur, Jerie Marie

**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 3441 Introduction to Organizational Communication**

- **3 credit(s); prereq 1101 or equiv;**
- **Instructor:** Goodwin, Patricia Franc

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

**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:** Albert, Rosita D

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

**COMM 3601 Introduction to Rhetorical Theory**

- **3 credit(s); prereq 1101; Meets CLE req of Citizenship/Publ Ethics Theme;**
- **Instructor:** Mackey, Michael

**Description:** This course is designed to introduce you to the discipline of rhetoric, including its history and key theories and debates. Rhetorical theories give us the tools for better understanding, evaluating, and critiquing discursive practices, including verbal and written communication. What is rhetoric? No two theorists would provide identical answers to this question. Nonetheless, we can describe the study of rhetoric as organized around critical questions about public discourse, such as: (1) What is the relationship between discourse and knowledge? How does language influence the ways in which we understand our worlds? (2) What is the relationship between discourse and politics? How do the norms for communicating in public and our political systems influence one another? (3) What is the relationship between discourse and ethics? How can discursive practices create (or obstruct) a more just world? (4) What is the relationship between discourse and education? How should students be taught to use rhetoric and the power of the word? A theorist’s answers to such questions influences how she defines rhetoric and which practices she believes constitute “rhetoric.” Depending upon how a theorist asks and answers such questions, the very meaning and value of rhetoric changes.

**Style:** 80% Lecture, 5% Film/Video, 15% Discussion.

Attending
COMM 3605W Persuasive Speaking and Speech Writing
3 credit(s); prereq Soph; Meets CLE req of Writing Intensive;
Instructor: Killian, Justin Lee
Description: Student may contact the instructor or department for information.
Grading: 70% of grade = 4 objective exams, weighed equally. 30% of grade = 12 short essays.
Exam Format: Objective: multiple choice, true-false, matching.

COMM 3990 Research Practicum
1-3 credit(s), max credits 6, 6 repeats allowed;
Instructor: Koerner, A. Felix
Description: Student may contact the instructor or department for information.

COMM 4245 Critical Television Studies
3 credit(s); prereq 3211;
Instructor: Ouellette, Laurie Jean
Description: Student may contact the instructor or department for information.

COMM 4291 New Telecommunication Media
A-F only, 3 credit(s); prereq 3211 or instr consent;
Instructor: Rodman, Gilbert B.
Description: Student may contact the instructor or department for information.

COMM 4602W Contemporary Political Persuasion
3 credit(s); prereq 1101, 3431 or instr consent; Meets CLE req of Writing Intensive;
Instructor: Campbell, Karlyn Kohrs
Description: Political Persuasion studies the influence exerted through political language, ideology, the calendar of politics (primary campaigns, nominations, conventions, electoral campaigns, stages in the presidency), relations between the three branches of government. This is a course in political language, the analysis of political speeches and events, and an effort to teach ways to evaluate different kinds of public discourse and the ways in which public discourse creates communities and political identities and influences public culture. The primary goal is to help students understand the broad rhetorical processes by which words, phrases, images, and actions acquire political meaning. These processes include public addresses, advertisements, constant news cycles, public relations professionals, and other agents. Second, we shall pay particular attention to the rhetorical, argumentative, and institutional advantages afforded presidents, would-be presidents, and elected officials in these social processes. Their efforts, which remain influential rhetorical precedents, compose most of the course packet.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% reflection paper, 10% class participation. Attendance and class participation are linked
Exam Format: Essay

COMM 5110 Special Topics in Communication Theory: Films of Woody Allen
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Gregg, Peter Benjamin
Description: Student may contact the instructor or department for information.

COMM 5110 Special Topics in Communication Theory: Biblical Arguments
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Nordin, John P
Description: Difficult texts, difficult arguments. 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. Perquisites: COMM 1313W or COMM 3601 or one class in Religious Studies. This class is intended for undergraduates.
Grading: 20% mid exam, 60% reports/papers, 20% in-class presentation.

COMM 5221 Media, Race, and Identity
3 credit(s); prereq 3211 or sr or instr consent;
Instructor: Rodman, Gilbert B.
Description: Student may contact the instructor or department for information.

COMM 5404 Language and Culture
3 credit(s); prereq 3401 or instr consent;
Instructor: Sheldon, Amy
Description: It is estimated that half of the people in world speak more than one language. What is the quality and texture of a life like when lived in more than one language? How does language contribute to our sense of identity and sense of community? We will read essays and books by and about people who are polylingual or bidialectal. Some had to learn English because their families fled their homeland. Some are American born. One writer chose to immerse herself in another language after her father’s death. Each writer struggles to fit into two or more worlds of language and hence culture. Each searches for self-unification and meaning in multiple worlds. Their languages or dialects have been a source of self-exploration, self-disruption, and self-reintegration. We will explore the gifts and heartaches of living within and across other languages or dialects. Whether monolingual or polylingual, we will learn about own linguistic histories, and the multilingual world we live in. We will also consider linguistic multiplicity in the U.S. and the world. We will become more aware of the language ideologies that shape our thinking as an individual and as a nation.

COMM 5406 Communication and Gender
3 credit(s); prereq One women’s studies course or instr consent; Credit will not be granted if credit has been received for: GWSS 5300;
Instructor: Sheldon, Amy
Description: This course will critically examine the claim that females and males use language differently by looking at actual language use. We examine how language constructs and evaluates normative and non-normative sexualities and genders. Possible topics: the relationship between gender, sexualities, language and power; practices that create conversational dominance and silencing; gender and sexuality as dualism and/or multiplicities; linguistic stereotypes of gender; gender as linguistic stylization; language as a resource to perform gender and sexual orientation; language issues in L.G.B, and T communities; what slang can tell us about how a culture views gender and sexuality; sexist and nonsexist language and language reform; etc. Language contexts include, but are not limited to: everyday conversational interactions that create (close) personal relationships, personal narratives, talk in public spaces (e.g., classrooms, courtyards, workplaces, etc.), non-face-to-face conversations: online, media, fantasy phone lines. Students will observe their own and others’ everyday speech. Term projects (including senior papers, M.A. and Ph.D. papers) can be started early and developed with guidance across the semester. The focus is on English but comparisons across languages are welcome. Texts: Eckert & McConnell-Ginet, 2001. Language & Gender, Oxford: Hall & Bucholtz. 1995. Gender Articulated, Routledge. And electronic reserve readings. Perquisite: One course in feminist studies or the equivalent, or permission of the instructor. If you have questions, or need a permission number to register, please contact Prof. Amy Sheldon, asheldon@umn.edu

COMM 5411 Small Group Communication Research
A-F only, 3 credit(s); prereq 3411 or instr consent;
Instructor: Hewes, Dean E  
**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 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 5615W Introduction to Rhetorical Criticism**  
3 credit(s); prereq 1101; 3601 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:** Ouellette, Laurie Jean  
**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 be conducted as a workshop aimed at answering the question “What should every parent know about media effects?” Put another way: As communication scholars, what do we think every parent ought to know about the status and findings of communication researchers with respect to various mass media? Answering such questions requires us to recognize and grapple not only with development-related questions of age appropriateness, but also with assimilating and understanding significant bodies of scholarly literature on popular media in order to summarize and “translate” such research for a general reading public. Each seminar/workshop participant will be expected to become expertly acquainted with a relevant body of scholarly literature. Such literature will include relevant qualitative and quantitative research findings. Possible topics include educational television, television violence, television and socialization, movies (and the rating system), advertising effects, video games, popular music, frightening media, radio, and computer use. The list will be adjusted to the size and interests of the seminar/workshop participants. Each participant will create a paper that will provide a parent-friendly synthesis of the scholarly literature broken down by age category. The goal is to create a book or website that parents could use to retrieve concise bullet-point research summaries that also link to more detailed explanations and citations to relevant scholarship. Participants do not need background in conducting social scientific research, but must be willing to work with other workshop participants to understand and summarize such research accurately. We will spend time as needed in early class sessions to make sure we understand key theoretical and statistical concepts. Registration for this class will be by permission only. If interested, email Edward Schiappa at schiappa@umn.edu  
**Style:** 10% Lecture, 90% Laboratory. Most work will be done independently.

**COMM 8110 Seminar: Advanced Speech Problems**  
3 credit(s), max credits 15, 5 repeats allowed; prereq undergrad degree in spch-comm or equiv;  
**Instructor:** Koenner, Ascan Felix  
**Description:** Special Topic: Strategic Communication in Interpersonal Relationships Strategic communication and compliance gaining—communication that persons engage in to achieve particular ends. Ends can be psychological, relational, or material and communicators might or might not be aware of the particular outcomes they are pursuing. Consideration of basic assumptions about human motivation and language; an in-depth look at Goals-Plan-Action Theory. Investigation of strategic communication in contexts of a) interpersonal influence and compliance gaining; b) relational and maintenance; c) social support; and d) conflict. Within these contexts we will observe how “strategic communication” is defined and used differently and plays a different role in each context. We will consider the consequences of these scholars’ particular definitions and uses for theory and research about communication. Finally, students will bring the notion of “strategic communication” to a context of their particular choice and propose a research project.

**COMM 8452 Seminar: Methods of Intercultural/Diversity Facilitation**  
3 credit(s); prereq 4451 or 5452 recommended;  
**Instructor:** Albert, Rosita D  
**Description:** The seminar will focus on various approaches/methods of improving intercultural relations, whether domestically, or internationally. We will consider major methods for intercultural sensitization and training, read academic articles and chapters by the leading figures in the field of intercultural relations and training (most of whom I know personally), consider intercultural training in different settings, examine the effectiveness of various approaches, read research on effectiveness, address practical issues and challenges in designing and carrying out such sensitization, try versions of various methods and so on. Graduate students from various departments and with a variety of interests in intercultural and diversity sensitization are warmly welcome. While previous courses in intercultural communication are helpful, they are not required. Participants will have an opportunity to develop a project related to the topic that focuses on their interest. Each participant will receive comments and suggestions from the instructor and from other participants in developing their project, and in turn, will contribute ideas and suggestions to help other participants in their projects. Projects can focus on designing a program, developing a research project, or can have another focus that is approved by the instructor. Participants will also help summarize, analyze and discuss the academic literature in this area. As the instructor I will serve as a resource person, and will share my long experience in teaching, training, research (both in intercultural relations and training), and consulting with cultural diversity both domestically and internationally. I am a Founding Fellow and current member of the Board of Directors of the interdisciplinary international Academy for Intercultural Research, the premier organization in the field of intercultural relations and training. The program in the Department of Communication has been a pioneer in the field of intercultural communication not only nationally, but internationally. MA students who take 6 credits and Ph.D. students who take 9 credits can have a Minor in Intercultural Communication. As a member of the graduate faculty in the department, I serve on MA. and Ph.D. committees of students with intercultural/diversity interests.

**COMM 8611 Seminar: Rhetoric**  
3 credit(s); max credits 6; prerequisite 5611 or instr consent;  
**Instructor:** Greene, Ronald Walter  
**Description:** Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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.
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-Stauss, 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 5910 Topics in Comparative Literature: Neo-Realism and the Cinema
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Casarino, Cesare
Description: The title of this course points to its main premise:
neorealism did not concern only the cinema. Although outside of
Italy it is known as a film movement, neorealism was enmeshed in a
thick fabric of other cultural phenomena, and, crucially, was also
a literary movement. Moreover, literary neorealism preceded cinematic neorealism of two decades, as it emerged from the antifascist literary circles of the 1920s, which included figures such as Vittorini, Pratolini, Pavese, Moravia, Zavattini, several of whom worked with neorealist filmmakers from the 1940s onwards. Furthermore, many of these literary figures were influenced by the nineteenth- and twentieth-century literature of the U.S., which was at first tolerated and then banned by the Italian fascist regime. U.S. authors from Poe to Faulkner, from Melville to (Minnesota's own) Lewis and Fitzgerald, were translated into Italian as well as written about by the most important protagonists of literary neorealism. To make matters even more complex, what has been considered by many the first neorealist film?Visconti's 1942 Ossessione?was a cinematic
adaptation, in 1946 and 1981). While none of the above takes anything away from the fact that cinematic neorealism constituted an event that changed the cinema as an aesthetic form, it is nonetheless essential to consider how it found crucial inspiration in the literary traditions of both Italy and the U.S. This course, hence, will begin by investigating the links between these literary traditions and neorealist cinema. But this will be only the beginning. The course will proceed to study the most iconic as well as the lesser-known films of neorealism: we will analyze films by De Sica, Rossellini, Visconti, De Santis, and by filmmakers whose early works were rooted in neorealist cinema and who developed in different directions (Fellini, Pasolini, Antonioni, Bertolucci, Olmi, Rosi, Scola). The course will end with some reflections regarding the return of neorealism in contemporary Italian cinema, especially after 1992 (the inception of the European Union); the films of Amelio, Moretti, and Martone will be taken into consideration. Ultimately, this course is founded on a paradox: on the one hand, neorealism constituted a coherent new form in the cinema (i.e. an identifiable new set of stylistic and thematic features), and, on the other hand, it cannot be reduced to a unified aesthetic field, especially in view of the different types of cinematic developments it generated. In the end, this course aims to question the very category of ?neorealism.? In the process of this investigation, we will be watching one and often two films per week, and we will be reading both literary works that influenced neorealist cinema (Pavese, Moravia, Pasolini) as well as secondary literature on neorealist cinema (Bazin, Deleuze, Sitney, Liehm, Marcus, Resilvo.)

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 granted if credit has been received for: CSDS 8901;
Instructor: Brown Jr., Robert L
Description: Student may contact the instructor or department for information.

CL 8910 Advanced Topics in Comparative Literature: Reading Foucault
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Messer-Davidow, Ellen
Description: Student may contact the instructor or department for information.

CL 8910 Advanced Topics in Comparative Literature: The Enlightenment: Society, Subjectivity, Desire
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Leppert, Richard
Description: The seminar will address issues surrounding the foundation of modernity as constructed around three interrelated tropes--society, subjectivity, and desire--as worked out in a number of key texts in philosophy, literature, politics, visual culture, and acoustic culture. The principal texts are by Pope (Essay on Man), Swift (Gulliver's Travels), Diderot (Rameau's Nephew: D'Alembert's Dream), Rousseau (The Confessions; The Discourse on the Sciences and Arts; The Discourse on the Origins of Inequality), Voltaire (Candide; The Philosophical Dictionary; Poem on the Lisbon Earthquake), Goethe (The Sorrows of Young Werther; Elective Affinities), Wollstonecraft (Vindication of the Rights of Woman), and Mozart (Don Giovanni; The Magic Flute); brief forays into works by Dumas, Condorcet, Bayle, Hume, d'Holbach, Kant, Burke, Montesquieu, Beaumarchais, Sade, and key examples of courtesy and conduct literature. Significant attention to major painters of the British and French Schools addressing issues of class, race, and gender distinction, sexuality, the body, society, and social justice; and architecture (both real and imaginary) addressing social organization and social change.
Style: 60% Lecture, 10% Film/Video, 30% Discussion. At least two screenings will be scheduled outside of class times.
Grading: 80% reports/papers, 20% class participation.

CL 8910 Advanced Topics in Comparative Literature: Critical Debates in Comparative Literature
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Taggelin, Shaden M
Description: Since their first invocations by Noel and de Laplace in France (1816) and by Goethe in Germany (1827), comparative literature and its corollary, world literature, have defined easy definition: a problem, perhaps, all to the good. In this graduate seminar, we will address ourselves to questions that have vexed the field since its inception. If the act of comparison presupposes both the similarity and dissimilarity of two things, what does it mean to "compare" literatures or to study "comparative" literature? If comparison establishes equivalence between two things only to claim the superiority of one over the other or to mask the inequality of one to the other, what are its ethics of commensurability and incommensurability? How do we liberate--indeed can we liberate--comparative literature from the tautological tyranny of difference and likeness? Our objectives in
this seminar will be twofold. The first half of the course will focus on the history of comparative literature and on foundational texts in the field. Taking as our points of departure the work of Bassnett and Melas on the history of the discipline, we will read early texts in U.S. comparative literature (Shackford, 1876, and Gayley, 1903). We will then look at nineteenth-century articulations of the field in France, Germany, and Britain: from Goethe on Weltliteratur (1827) to Chasles on comparative literature (1835), from de Lomütz's arresting mobilization of 'minor' literatures (1877) to Posnett's social Darwinist approach to national and world literatures (1886) to Benjamin's translation theory (1923). From these beginnings we will discuss key works in the post-World War II period (1942-1970), focusing on Warren, Wellesly, Auerbach, Spitzer, Etelemble, and Levin. Finally, we will consider contemporary states of the field in the West and in the Arab world, India, China, and Africa. In the second half of the course we will examine recent engagements with the meaning, method, and scope of comparative literature and consider how these engagements—and the new (or not-so-new) directions they propose—might hark back to prior texts in the history of the field. We will focus on four axes of critical debate: 1) Comparative world, or planetary literature? (Damrosch, Casanova, Spivak); 2) Methods of comparison: close vs. distant reading, philology vs. science (Spivak, Said, Quayson, Moretti); 3) The translational turn and (post)colonial failures of translatability (Apter, Melas); and 4) The cultural turn and the changing status of the "literary." In discussions and in final papers, seminar participants are encouraged to relate their own research to these problems. By semester's end, we will come away with a sharper sense of the history of our field; its periodic reengagement of the relationship of the "literary" to geopolitics, science, and linguistic and economic exchange; and its struggle to replace a Eurocentric worldview with a polycentric vision.

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, Borges, Deleuze, Deirdra, Eichenbaum, Foucault, Freud, Jakobson, Kristeva, Mitchell and Rose, Lacan, Levinas, Levi-Strauss, Lotman, Peirce, Saussure, Shklovsky, Wimsatt and Beardsley, Winnicot.
Style: 70% Lecture, 30% Discussion.
Grading: 70% reports/papers, 10% in-class presentation, 20% class participation.
Exam Format: Paper

CSDS 5910 Topics in Comparative Studies in Discourse and Society: Neo-Realism and the Cinema
3 credit(s); max credits 24, 8 repeats allowed; Instructor: Casarino, Cesare
Description: The core of the course points to its main premise: neorealism did not concern only the cinema. Although outside of Italy it is known as a film movement, neorealism was enmeshed in a thick fabric of other cultural phenomena, and, crucially, was also a literary movement. Moreover, literary neorealism preceded cinematic neorealism of two decades, as it emerged from the anti-fascist literary circles of the 1920s, which included important protagonists of literary neorealism. To make matters even more complex, what has been considered by many the first neorealist film? Visconti's 1942 Ossessione? was a cinematic adaptation of Cain's 1935 pulp fiction The Postman Always Rings Twice (which has had also two Hollywood film adaptations, in 1946 and 1981). None of the above takes anything away from the fact that cinematic neorealism constituted an event that changed the cinema as an aesthetic form, it is nonetheless essential to consider how it found crucial inspiration in the literary traditions of both Italy and the U.S. This course, hence, will begin by investigating the links between these literary traditions and neorealist cinema. But this will be only the beginning. The course will proceed to study the most iconic as well as the lesser-known films of neorealism: we will analyze films by De Sica, Rossellini, Visconti, De Santis, and by filmmakers whose early works were rooted in neorealist cinema and who developed in different directions (Fellini, Pasolini, Antonioni, Bertolucci, Olmi, Ross, Scola). The course will end with some reflections regarding the return of neorealism in contemporary Italian cinema, especially after 1992 (the inception of the European Union): the films of Amelio, Moretti, and Martone will be taken into consideration. Ultimately, this course is founded on a paradox: on the one hand, neorealism constituted a coherent new form in the cinema (i.e. an identifiable new set of stylistic and thematic features), and, on the other hand, it cannot be reduced to a unified aesthetic field, especially in view of the different types of cinematic developments it generated. In the end, this course aims to question the very category of ?neorealism.? In the process of this investigation, we will be watching one and often two films per week, and we will be reading both literary works that influenced neorealist cinema (Pavese, Moravia, Pasolini) as well as secondary literature on neorealist cinema (Bazin, Deleuze, Sitney, Lieh, Marcus, Restivo.)
Style: 30% Lecture, 50% Film/Video, 20% Discussion.
Requirements for the course might include film viewings outside of class times.
Grading: 20% final exam, 80% reports/papers. Attendance is required.

CSDS 8002 Basic Seminar in Comparative Studies in Discourse and Society II
3 credit(s); Instructor: Schulte-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 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: Reading Foucault
3 credit(s), max credits 24, 8 repeats allowed; Instructor: Messer-Davidow, Ellen
Description: Student may contact the instructor or department for information.

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: The Enlightenment: Society, Subjectivity, Desire
3 credit(s), max credits 24, 8 repeats allowed; Instructor: Leppert, Richard
Description: This seminar will address issues surrounding the foundation of modernity as constructed around three interrelated tropes—society, subjectivity, and desire—as worked out in a number of key texts in philosophy, literature, politics, visual culture, and acoustic culture. The principal texts are by Pope...

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Comparative and Molecular Biology

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Critical Debates in Comparative Literature
 Instructor: Tageldin, Shaden M
 Description: Since their first invocations by Noel and de Laplace in France (1816) and by Goethe in Germany (1827), comparative literature and its corollary, world literature, have defied easy definition: a problem, perhaps, all to the good. In this graduate seminar, we will address ourselves to questions that have vexed the field since its inception. If the act of comparison presupposes both the similarity and dissimilarity of two things, what does it mean to “compare” literatures or to study “comparative” literature? If comparison establishes equivalence between two things only to claim the superiority of one over the other or to mask the inequality of one to the other, what are its ethics of commensurability and incommensurability? How do we liberate—indeed can we liberate—comparative literature from the tautological tyranny of difference and likeness? Our objectives in this seminar will be twofold. The first half of the course will focus on the history of comparative literature and on foundational texts in the field. Taking as our points of departure the work of Bassnett and Melas on the history of the discipline, we will read early texts in U.S. comparative literature (Shackford, 1876, and Gayley, 1903). We will then look at nineteenth-century articulations of the field in France, Germany, and Britain: from Goethe on _Weltliteratur_ (1827) to Chasles on comparative literature (1835), from de Lomnitz’s arresting mobilization of Weltliteratur in defense of “minor” literatures (1877) to Posnett’s social Darwinist approach to national and world literatures (1886) to Benjamin’s translation theory (1923). From these beginnings we will discuss key works in the post-WWII incarnation of the field (1942-1970), focusing on Warren, Wellek, Auerbach, Spitzer, Eliemle, and Levin. Finally, we will consider contemporary states of the field in the West and in the Arab world, India, China, and Africa. In the second half of the course, we will examine recent engagements with the meaning, method, and scope of comparative literature and consider how these engagements—and the new (or not-so-new) directions they propose—might hark back to prior texts in the history of the field. We will focus on four axes of critical debate: 1) Comparative world, or planetary literature? (Damrosch, Casanova, Spivak); 2) Methods of comparison: close vs. distant reading, philology vs. science (Spivak, Said, Quayson, Moretti); 3) The translational turn and (post)colonial failures of translatability (Apter, Melas); and 4) The cultural turn and the changing status of the “literary.” In discussions and in final papers, seminar participants are encouraged to relate their own research to these problems. By semester’s end, we will come away with a sharper sense of the history of our field; its periodic reengagement of the relationship of the “literary” to geopolitics, science, and linguistic and economic exchange; and its struggle to replace a Eurocentric worldview with a polycentric vision.

Biosciences

CMB 5381 Pathogenesis of Infectious Zoonotic Diseases
 A-F only, 3 credit(s); prereq [Microbiology, biochemistry] courses or instr consent ;
 Instructor: Ji, Yinduo
 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: Rutherford, Mark Stephen
 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 ; Credit will not be granted if credit has been received for: ANSC 8131 ;
 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.

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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, Philip
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
1 A-F only, 4 credit(s);
Instructor: Shesh, Amit Prakash
Description: This course will view the Internet from two aspects: as a user and as a programmer. The first category will comprise of learning basic concepts of what the Internet is, how it works and various terminologies related to it. We will also talk about email protocols, file transfers, remote logging, etc. The second category will comprise of designing web pages using XHTML and cascading style sheets. We will also learn about XML, a popular markup language and a parent of XHTML and others. We will cover the basic of scripting and discuss Javascript, a popular scripting language.

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: Dovolis, Chris John
Description: CSCI 1901 is the first required course for Computer Science majors. CSCI 1901 is a prerequisite for CSCI 1902 and many other CSci courses. Therefore, students planning to major in computer science and non-majors who plan to take other more advanced computer science courses should take CSCI 1901 first. CSCI 1901 is a challenging course that covers many fundamental programming and software design principles in a practical manner. The following topics are covered: data abstraction, data representations, procedural abstraction, recursion, iteration, lists, tables, intro to object oriented programming and intelligent data. The Scheme programming language is used to implement programs using these concepts. The text for the course is Abeison and Sussman’s “Structure and Interpretation of Computer Programs.” CSCI 1901 is very time consuming, and the pace is quick. Be sure to allot plenty of time for this course. There is a very large programming component to this course. Students may work in pairs on programming assignments.
Style: 70% Lecture, 30% Discussion.
Grading: 30% mid exam, 30% final exam, 40% other evaluation.
Programming assignments
Exam Format: Programming

CSCI 1902 Structure of Computer Programming II
4 credit(s); prereq 1901 or instr consent;
Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

CSCI 2011 Discrete Structures of Computer Science
4 credit(s); prereq MATH 1271 or MATH 1371 or instr consent;
Instructor: Janardan, Ravi
Description: CSCI 2011 is a required undergraduate course for both computer science and computer engineering majors, who are expected to take it in their sophomore year. It is required for admission to the CSci major and is a prerequisite for many higher-level CSci classes. The course will cover a range of topics drawn from the following list: propositional and predicate logic, proof methods, sets, functions, and sequences, summation techniques, integer and matrix algorithms, asymptotic analysis and big-O notation, recursion and induction, counting methods, recurrences and divide-and-conquer, relations, graphs, and trees. These concepts will be illustrated with suitable applications, wherever possible. It is expected that students who complete this course successfully will be able to use these structures and techniques in analyzing and solving a variety of problems, and will be able to present their analysis/solution in a clear, concise, and accurate manner.
Style: 70% Lecture, 25% Discussion.
Grading: 30% final exam, 40% quizzes, 30% problem solving. Percentages allocated for various components of coursework (assignments, quizzes, final) are approximate and subject to change before the term begins.
Exam Format: Exercises/problems.

CSCI 2021 Machine Architecture and Organization
4 credit(s); prereq 1902 or instr consent;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

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: Interrante, Victoria
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: Boley, Daniel L
Description: Introduces computing concepts, methods and skills useful for anyone in biology, biotechnology, and bioinformatics. Will teach basic concepts needed to construct programs to...
retrieve, analyse, validate and display experimental data from genomics, bioinformatics, microarrays, and web-based information repositories. Requires no previous computer experience. Many undergraduate majors in the Biological Sciences can use this course in lieu of Calculus II, or else can use this as an elective. You will learn how to run a variety of algorithms to carry out many tasks in bioinformatics, including some data analysis and visualization, using real data drawn from a variety of biological applications for computational projects. Style: 50% Lecture, 50% Laboratory.

Grading: 20% mid exam, 20% final exam, 10% quizzes, 10% class participation, 30% laboratory evaluation, 10% other evaluation. (20% each midterm exam). All percentages tentative

Exam Format: short answer, short programs.

CSCI 3081W Program Design and Development
4 credit(s); prereq [1902, 2021] or instr consent; Meets CLE req of Writing Intensive;
Instructor: VanWyk,Eric
Description: Student may contact the instructor or department for information.

CSCI 3921W Social, Legal, and Ethical Issues in Computing
3 credit(s); prereq At least soph or instr consent; Meets CLE req of Citizenship/Publ Ethics Theme; Meets CLE req of Writing Intensive;
Instructor: Swanson,Charles D
Description: Computing technology is having profound effects on society, providing many benefits but presenting many challenges as well. Important issues such as privacy, freedom of speech, intellectual property rights, social networking, and professional conduct will be considered from social, legal and ethical perspectives.
Style: 30% Lecture, 40% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 20% mid exam, 50% reports/papers, 15% special projects, 5% written homework, 10% class participation.

CSCI 3970 Industrial Student Co-op Assignment
S-N only, 2 credit(s), max credits 4; prereq CSci, in co-op program, instr consent ;
Instructor: Swanson,Charles D
Description: Student may contact the instructor or department for information.

CSCI 4011 Formal Languages and Automata Theory
4 credit(s); prereq [1902, 2011] or instr consent ;
Instructor: Sturtivant,Carl
Description: Finite automata and regular expressions; Context-Free Grammars; Turing machines, computability, recursive versus recursively enumerable sets; Introduction to NP-completeness.
Style: 70% Lecture. recitation
Grading: 15% mid exam, 40% final exam, 45% problem solving.
Exam Format: problem solving

CSCI 4041 Algorithms and Data Structures
4 credit(s); prereq 1902 and 2011 or instr consent ; cannot be taken for grad CSci cr;
Instructor: Steinmetz,Erik S
Description: Student may contact the instructor or department for information.

CSCI 4131 Internet Programming
3 credit(s); prereq 4061, 4211 recommended, cannot be taken for grad CSci cr; Credit will not be granted if credit has been received for: CSCI 5131;
Instructor: Vayghan,Jamshid A.
Description: Student may contact the instructor or department for information.

CSCI 4203 Computer Architecture
4 credit(s); prereq 2021 or instr consent credit will not be granted if credit received for: 5201, EE 5361; Credit will not be granted if credit has been received for: EE 4363;
Instructor: Sobelman,Gerald Edward
Description: Student may contact the instructor or department for information.

CSCI 4211 Introduction to Computer Networks
3 credit(s); prereq 4061 or instr consent ; basic knowledge of [computer architecture, operating systems] recommended, cannot be taken for grad CSci cr; Credit will not be granted if credit has been received for: CSCI 5211;
Instructor: Sturtivant,Carl
Description: Fundamental concepts, principles, protocols, and applications. Layered network architectures, data link protocols, local area networks, routing, transport, congestion /flow control, emerging high-speed networks, network programming interfaces, management, security, and applications. Ethernet, ATM, TCP/IP, HTTP, and WWW. Basic knowledge of computer architecture and operating systems is recommended.
Style: 100% Lecture.
Grading: 11% mid exam, 40% final exam, 49% problem solving.
Exam Format: essay

CSCI 4211W Introduction to Computer Networks
3 credit(s); prereq 4061 or instr consent ; basic knowledge of [computer architecture, operating systems] recommended, cannot be taken for grad CSci cr; Credit will not be granted if credit has been received for: CSCI 5211;
Instructor: Raabe,John J
Description: Student may contact the instructor or department for information.

CSCI 4707 Practice of Database Systems
3 credit(s); prereq 4041 or instr consent ; Credit will not be granted if credit has been received for: CSCI 5707;
Instructor: Shekhar,Shashi
Description: Student may contact the instructor or department for information.

CSCI 4950 Senior Software Project
A-F only, 3 credit(s), max credits 6; prereq Upper div CSci, instr consent ;
Instructor: Riedl,John T
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: Swanson,Charles D
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: Carlis,John Vincent
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: Collis,John
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: Riedl,John T
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: Karypis,George
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: Hopper,Nicholas J
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: Yew,Pen-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: 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, 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: Heimdahl,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: Voyles PhD,Richard M
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,Yousef
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: Vyas,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: Karypis,George
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: Boleyn,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: Voyles PhD,Richard M
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,Yousef
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: Vyas,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: Karypis,George
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: Boleyn,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: Vyas,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: Voyles PhD,Richard M
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,Yousef
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: Vyas,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: Karypis,George
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: Boleyn,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: Vyas,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: Karypis,George
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: Srinivasa,Laideep
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: Mokbel,Mohamed F
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: Myers, Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 5105 Foundations of Modern Operating Systems
3 credit(s); prereq 5103 or instr consent;
Instructor: Chandra, Abhishek
Description: Student may contact the instructor or department for information.

CSCI 5403 Computational Complexity
3 credit(s); prereq 4041 or instr consent;
Instructor: Hopper, Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 5421 Advanced Algorithms and Data Structures
3 credit(s); prereq 4041 or instr consent;
Instructor: Sturtivant, Carl
Description: Student may contact the instructor or department for information.

CSCI 5451 Introduction to Parallel Computing: Architectures, Algorithms, and Programming
3 credit(s); prereq 4041 or instr consent;
Instructor: Karypis, George
Description: Student may contact the instructor or department for information.

CSCI 5511 Artificial Intelligence I
3 credit(s); prereq 2011 or instr 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 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 use a combination of lectures and in class discussion. We will supplement the material from the textbook with 2-3 technical papers that will show how the concepts and algorithms we learn are applied to real world problems. For instance, we may look at how airlines search for flights for users, how search is used in combinatorial 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, 20% special projects, 20% written homework, 15% additional semester exams, 10% class participation.
Exam Format: Problem solving

CSCI 5512W Artificial Intelligence II
3 credit(s); prereq [STAT 3021, 4041] or instr consent; Credit will not be granted if credit has been received for: CSCI 5519; Meets CLE req of Writing Intensive;
Instructor: Banerjee, Arindam
Description: Student may contact the instructor or department for information.

CSCI 5552 Sensing and Estimation in Robotics
3 credit(s); prereq [5551, Stat 3021] or instr consent;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSCI 5561 Computer Vision
3 credit(s); prereq 5511 or instr consent;
Instructor: Papanikolopoulos, Nikolaos P
Description: The course objective is to introduce the students to the “Computer Vision” area. In particular, the course will start from simple problems in perspective transformations, edge detection, image filtering, image segmentation, and feature tracking. Later in the semester, more complex problems in shape recovery, stereo, active vision, and autonomous navigation will be discussed.
Style: 60% Lecture, 40% Discussion.
Grading: 20% final exam, 30% reports/papers, 20% problem solving, 30% other evaluation. Programming assignments
Exam Format: Take-home exam

CSCI 5708 Architecture and Implementation of Database Management Systems
3 credit(s); prereq 4707 or 5707 or instr consent;
Instructor: Mokbel, Mohamed F
Description: Student may contact the instructor or department for information.

CSCI 5802 Software Engineering II
3 credit(s); prereq 5801 or instr consent;
Instructor: Heimdahl, Mats Per
Description: Software engineering is concerned with the cost

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This information is accurate as of 9/15/2008 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 5980 Special Topics in Computer Science
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 5980 Special Topics in Computer Science: Functional Genomics and Bioinformatics
3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent ; may be repeated for cr;
Instructor: Kuang, Rui
Description: Recent developments in biotechnology have enabled large-scale DNA sequencing and high-throughput measurement of several cellular phenomena including gene expression, protein-protein interactions and protein localization. These technologies have generated an unprecedented amount of data that contains rich information about gene function and systems-level organization of the cell. The tremendous amount of data presents an exciting opportunity for computer scientists, because computational models are necessary tools for interpreting and integrating the data to make inferences about cellular function. This course gives an introduction to various types of functional genomic data available and current computational and statistical methods used for analyzing the data to answer questions in functional genomics and systems biology. We will cover the analysis of gene expression data, proteomic data, and interaction data, with a special focus on how they can be used to understand and infer networks. We will end with a discussion of integrating multiple complementary data types, a powerful approach to build accurate descriptive and predictive models. These topics span a variety of computational methods from signal processing, machine learning and statistics including clustering, classification, pattern discovery, statistical tests and network inference. Methods for effective data visualization will also be a recurring theme.
Style: 75% Lecture, 25% Discussion.
Grading: 30% special projects, 60% written homework, 10% in-class presentation. Four Homework Assignments (15% each): 60%; Course Project: 30%; Project Presentation: 10%.

CSCI 5991 Independent Study
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 5991 Independent Study
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 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr 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 instr 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 instr consent ; may be repeated for cr;
CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; 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; prerequisite instructor consent; may be repeated for credit; Instructor: Voyles PhD, Richard M
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: Saad, Yousuf
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: Sturtivant, Carl
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; 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; prerequisite instructor consent; may be repeated for credit; 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; prerequisite instructor consent; may be repeated for credit; Instructor: Shragowitz, Eugene
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: Du, David Hung-Chang
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: Heimdahl, Mats Per
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: Shekhar, Shashi
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: Giri, Maria 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; prerequisite instructor consent; may be repeated for credit; Instructor: Schrater, Paul Robert
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; 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; prerequisite instructor consent; may be repeated for credit; 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; prerequisite instructor consent; may be repeated for credit; Instructor: Weissman, Jon B
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: He, Tian
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: Naadathur, Gopalan
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: Meyar, Gary W
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 repeats allowed; prerequisite instructor consent; may be repeated for credit; Instructor: VanWyk, Eric
Description: Student may contact the instructor or department for information.
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<th>Course Title</th>
<th>Instructor</th>
<th>Consent Required</th>
<th>Repeatable for CR</th>
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<th>Prerequisites</th>
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<td>Independent Study</td>
<td>Carls, John Vincent</td>
<td>Yes</td>
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<td>May be repeated for CR; Instructor: Terveen, Loren Gilbert</td>
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<td>CSCI 5991</td>
<td>Independent Study</td>
<td>Swanson, Charles D</td>
<td>Yes</td>
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<td>May be repeated for CR; Instructor: Roymeliotis, Stergios</td>
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<td>Myers, Chad Leighton</td>
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<td>May be repeated for CR; Instructor: Schuler, William Edward</td>
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<td>Konstan, Joseph Andrew</td>
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<td>May be repeated for CR; Instructor: Barry, Phillip</td>
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<td>CSCI 5991</td>
<td>Independent Study</td>
<td>Hopper, Nicholas J</td>
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<td>Yes</td>
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<td>May be repeated for CR; Instructor: Mokbel, Mohamed F</td>
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<td>Independent Study</td>
<td>Barry, Phillip</td>
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<td>May be repeated for CR; Instructor: Zhai, Antonia Bingheng</td>
</tr>
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<td>CSCI 5991</td>
<td>Independent Study</td>
<td>Papanikolopoulos, Nikolaos P</td>
<td>Yes</td>
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<td>May be repeated for CR; Instructor: Boley, Daniel L</td>
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<td>CSCI 5994</td>
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<td>May be repeated for CR; Instructor: Roymeliotis, Stergios</td>
</tr>
<tr>
<td>CSCI 5994</td>
<td>Directed Research</td>
<td>Swanson, Charles D</td>
<td>Yes</td>
<td>Yes</td>
<td>9</td>
<td>May be repeated for CR; Instructor: Collins, John</td>
</tr>
<tr>
<td>CSCI 5994</td>
<td>Directed Research</td>
<td>Konstan, Joseph Andrew</td>
<td>Yes</td>
<td>Yes</td>
<td>9</td>
<td>May be repeated for CR; Instructor: Papanikolopoulos, Nikolaos P</td>
</tr>
<tr>
<td>CSCI 5994</td>
<td>Directed Research</td>
<td>Hopper, Nicholas J</td>
<td>Yes</td>
<td>Yes</td>
<td>9</td>
<td>May be repeated for CR; Instructor: Barry, Phillip</td>
</tr>
</tbody>
</table>

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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: 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: 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, Vipin
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: Shragowitz, Eugene
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: Du, David Hung-Chang
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: Heimdahl, Mats Per
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: Schrater, Paul Robert
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: 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: 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: Hu, 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: 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: Kuang, Rui
Description: Student may contact the instructor or department for information.

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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: 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: 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: Zhai, Antonia Bingheng
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, Arindam
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 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent; 
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

CSCI 5994 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent; 
Instructor: Collins, John
Description: Student may contact the instructor or department for information.

CSCI 5994 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent; 
Instructor: Karypis, George
Description: Student may contact the instructor or department for information.

CSCI 5994 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent; 
Instructor: Hopper, Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 5994 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent; 
Instructor: Yew, Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 5994 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent; 
Instructor: Barry, Phillip
Description: Student may contact the instructor or department for information.

CSCI 5994 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 5994 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent; 
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5994 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [CSci or CompE] major, instr consent; 
Instructor: Papanikolopoulos, Nikolaos P
Description: Student may contact the instructor or department for information.

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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: Lilja, David J
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.

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: 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: Du, David Hung-Chang
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: Heimdal, Mats Per
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: Shekhar, Shashi
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: Terveen, Loren Gilbert
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: Chang, William Edward
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: Chandra, Abhishek
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: Zhai, Antonia Bingheng
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: Mokbel, Mohamed F
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: Banerjee, Arindam
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: Myers, Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 8002 Introduction to Research in Computer Science, II
A-F only, 2 credit(s); prereq 8001, 1st yr CS PhD student; Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 8115 Human-Computer Interaction and User Interface Technology
3 credit(s); prereq 5115 or instr consent; Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 8205 Parallel Computer Organization
3 credit(s); prereq 5204 or EE 5384 or instr consent; Credit will not be granted if credit has been received for: EE 8367; Instructor: Zhai, Antonia Bingheng
Description: Student may contact the instructor or department for information.

CSCI 8211 Advanced Computer Networks and Their Applications
3 credit(s); prereq 5211 or instr consent; Instructor: He, Tian
Description: Wireless ad hoc and sensor networks contain a large number of Wireless ad hoc and sensor networks have been used in many application domains such as personal communication, military surveillance, habitat monitoring and scientific exploration. The hype indicates that wireless ad hoc and sensor networks will dominate every aspect of our lives in the near future. The overall impact is touted as the next Internet! This class presents the fundamentals regarding the hardware and software of ad hoc and sensor networks. It synthesizes materials from many research papers, presenting principles, commonalities and open research issues. Also importantly, students will obtain hand-on experience (four labs) on programming tiny communication devices to sense and communicate in this course.

CSCI 8271 Security and Privacy in Computing
A-F only, 3 credit(s); prereq [5211, 5103] or instr consent; 5471 or EE 5248 or Math 5248 or equiv recommended; Instructor: Kim, Yongdai
Description: Student may contact the instructor or department for information.

CSCI 8725 Databases for Bioinformatics
3 credit(s); prereq 4707 or 5707 or instr consent; Instructor: Carlis, John Vincent
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: Swanson, Charles D
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: Carlis, John Vincent
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: Dovolis, Chris 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: 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;
Description: Student may contact the instructor or department for information.
Instructor: Yew,Pen-Chung

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Zang,Zhi-Li

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Barry,Phillip

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Konstan,Joseph Andrew

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Boley,Daniel L

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Papanikolopoulos,Nikolaos P

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Janardan,Ravi

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Saad,Yousef

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Lilja,David J

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Sturtivant,Carl

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Kumar,Vipin

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Tripathi,Anand R

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Shragowitz,Eugene

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Du,David Hung-Chang

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Shekhar,Shashi

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Gini,Maria L

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Srivastava,Jaideep

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Interrante,Victoria

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Kuang,Rui

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Weissman,Jon B

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Hsu,Wei Chung

CSCI 8760 Plan B Project
S-N only, 3 credit(s); prereq CSci MS student, instr consent;
Description: Student may contact the instructor or department for information.
Instructor: He,Tian

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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: Myers,Gary W
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: 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: Mokbel,Mohamed F
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: Banerjee,Arindam
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 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:
Recent Advances in Computer Architectures
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Yew,Pen-Chung
Description: VLSI technology has allowed the number of transistors on a single chip to surpass 1 billion transistors in recent years. It has closely followed the famous Moore's Law that predicts the doubling of the number of transistors on a chip every 18 months - for more than four decades!! Microprocessor performance has also closely followed that trend until the clock rate reached around 4 GHz a couple of years ago. To sustain such high clock rates, microprocessor architectures have undergone many dramatic changes. For example, recent NetBurst microarchitecture of Intel?S Pentium 4 microprocessor family requires 20 pipeline stages before we will know a branch prediction is correct or not, i.e. a branch mis-prediction penalty will be 20 cycles!! Such a design will demand very high branch prediction accuracy and many other microarchitecture support to sustain instruction pipeline throughput. The ever decreasing transistor sizes also introduce new challenges such as higher leakage current and more soft errors. They require computer architects to deal with power and reliability issues. In this course, we will look at some recent high performance microprocessor architectures, and the new challenging issues facing today?'s and future generations of microprocessors. The subject areas will include: (1) Advanced Processor Microarchitectures; (2) Memory Systems Design; (3) Cache Memories; (4) Branch Prediction Schemes; (5) Speculative Execution; (6) Power-Aware Architectures; (7) Reliability and Security; (8) Simulation Techniques and Performance Evaluation; (9) Virtualization Support; (10) Program Debugging and Testing Support; (11) I/O Systems; (12) Special-Purpose Architectures; (13) Compilation Techniques Course Materials: The course will primarily be based on recently published research papers in major conferences, such as International Symposium on Computer Architectures (ISCA), International Symposium on Microarchitectures (MICRO), International Conferences on High Performance Computer Architectures (HPCA) and others.
Prerequisites: Students must have taken computer architecture courses such as CS4203, CS 5204, EE 4363, EE4341, EE 5364, their equivalents, or the consent of the instructor.
Style: 40% Lecture, 20% Discussion, 40% Student Presentation.
Grading: 20% mid exam, 40% special projects, 30% in-class presentation, 10% class participation.

CSCI 8980 Special Advanced Topics in Computer Science:
Biomedical Informatics & Computational Biology
1 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Neuhauser,Claudia
Description: Student may contact the instructor or department for information.

CSCI 8980 Special Advanced Topics in Computer Science:
Biomedical Informatics & Computational Biology
1 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Modiano,Eytan
Description: Student may contact the instructor or department for information.

CSCI 8980 Special Advanced Topics in Computer Science:
Seminar in Computer Networks
1 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Modiano,Eytan
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;
CSCI 8991 Independent Study
1-3 credit(s), max credits 3, 1 repeat allowed; prereq instructor 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 instructor 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 instructor 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 instructor 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 instructor 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 instructor consent;
Instructor: Barry, Phillip
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: Konstan, 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 instructor 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 instructor consent;
Instructor: Papanikolopoulos, Nikolaos P
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: 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 instructor 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 instructor consent;
Instructor: Voyles PhD, Richard M
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: 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 instructor 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 instructor 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 instructor consent;
Instructor: Shragowitz, Eugene
Description: Student may contact the instructor or department for information.

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Instructor: Tripathi, Anand R
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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.

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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.

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1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;
Instructor: Schrater, Paul Robert
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: Srivastava, Jaideep
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: Interrante, Victoria
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: Kuang, Rui
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: Weissman, Jon B
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: Hsu, Wei Chung
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
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Instructor: He, Tian
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: 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: Meyer, Gary W
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: VanWyk, Eric
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: Terveen, Loren Gilbert
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: 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 instr 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 instr consent;
Instructor: Schuler, William Edward
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: Chandra, Abhishek
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: Zhai, Antonia Bingheng
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: Mokbel, Mohamed F
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: 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 instr consent;
Instructor: Banerjee, Arindam
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: 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;
CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr 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: Carlis, 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 instr 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 instr consent;
Instructor: Karypis, George
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: 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 instr consent;
Instructor: Hopper, Nicholas J
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: Yew, Pen-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: Zhang, Zhi-Li
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: 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 instr consent;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

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1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
Instructor: Boley, Daniel L
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1-3 credit(s), max credits 9, 9 repeats allowed; prereq instr consent;
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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.

Conservation Biology

This information is accurate as of 9/15/2008 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.
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 8095 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.

CMGT 3001 Introduction to Construction
3 credit(s);
Instructor: Kuehni, 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 4542 Building Energy Systems
A-F only, 3 credit(s); prereq [3001, [J 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.

CDED 6010 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 6020 Postgraduate Contemporary Esthetic Dentistry:
Level II--Patient Series
S-N only, 5 credit(s); prereq 6101;
Instructor: Olin, Paul S
Description: Student may contact the instructor or department for information.

CDED 7300 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.

CSCL 1001 Introduction to Cultural Studies: Rhetoric, Power, Desire
4 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Brown Jr, Robert L
Description: How did we become "women" or "men," "gay" or "straight"? Where did we get our tastes in clothes, food, music, and decorative arts? 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 (our culture) 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: music videos, television and film, some paintings and photographs, magazine ads, poetry, a graphic novel, science and science journalism, and some "practices" from everyday life: dress, manners and body decoration. The "rhetoric" of culture transmits a view of the world and our loyalty to that view. Its systems of "power" fold 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. It's a basic course for majors and non-majors interested in making sense of their worlds. Style: 60% Lecture, 40% Discussion. Grading: 20% mid exam, 30% final exam, 50% reports/papers. Exam Format: open-book; short, guided answers

CSCL 3115 Cinema and Ideology
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: De Villiers, Nicholas A
Description: This course examines the cinema as a social institution with emphasis on the complex relations it maintains with the ideological practices that define both the form and the content of its products. We will consider specific films to study how mass culture contributes to the process of shaping beliefs and identities of citizens. We will consider ideology not just as Propaganda, but ideology as common sense, that which goes without saying. We will ask: How can a film reinforce or disrupt a dominant ideology? What are the ideological effects of particular
CSCL 3172 Music as Discourse
3 credit(s); Meets CLE req of Other Humanities Core;
Instructor: Leppert, Richard
Description: The real or imagined power of music (whether for evil or good), as well as its social uses, and its psychic and cultural meanings have been the subject of human reflection—and anxiety—from Plato to the present. This course will examine the ways in which music can be considered a “discursive practice,” i.e., how music participates in the formation of social norms, as well as human consciousness, identities, and attitudes toward the self and others; and how and for what purposes music is used; what (and who) distinguishes “music” from “noise”; and why some musics are policed and censored. Two comments by the modern philosopher of music, Theodor Adorno, nicely frame what this course is about: “I believe in the strict knowability of music, because music is itself knowledge, and in its way very strict knowledge”; and “As soon as one starts to discuss music, one enters the realm of thought, and no power on earth has the right to silence this.” Blues, country, r & b, punk, rock, jazz, opera, orchestral, and other musics.
Style: 85% Lecture, 15% Discussion.
Grading: 25% mid exam, 25% final exam, 25% additional semester exams, 25% reflection paper. 3 exams (including final), each worth 25% of total grade + 5-6 pp. paper
Exam Format: Essay

CSCL 3175 Comedy: Text and Theory
3 credit(s); Meets CLE req of Other Humanities Core;
Instructor: Johnson, Kjel Wayne
Description: Course Description: CSCL 3175 investigates comedy and the comic as mechanisms of pleasure, as modes of discourse and metadiscourse, as narratives incorporating the extremes of violent subversion and utopian salvation, and ultimately as a way of being in the world: comedy, in other words, as a philosophy and as a way of life. We’ll explore a wide range of comic phenomena, ?dirty? to ?divine,? flatulence to afflatus, scatology to eschatology?something, that is, not only to edify but also to delight (and it is sincerely hoped) offend everybody. And we’ll have some fun along the way. We will, in short, take comedy seriously?while taking the serious issues to which it relates in the fullest comic spirit. Caveat Emptor: The course will gleefully and wildly swing between ?high?philosophy and ?low?filth?: we are here to play, to explore, even to mock and deride?but never at the expense of a productive dialogue. We will read and write, as we read these texts, hopefully to learn as much about the texts from which we derive pleasure as we learn about ourselves and the structures of meaning and discourse in which we exist and act. We will weave through, dig into, and play within the following questions: What are the sources of comic pleasure, the causes of laughter? What are the psychic and social ends of comedy? What is the necessary relation between comedy, violence, and cruelty? What is comedy’s relation to play, ritual, sports and games, festivals, holidays, and religion? How does the human body?its desires, its physical processes, its secretions and excretions, its decay and death?function in comic discourse?What are some of the principal narrative modes of comedy? How are comic pleasures mobilized to persuade, educate, and commodify values? to reproduce, reinforce, or subvert authority, asymmetrical power relations and the ideologies on which they depend? What is it about comedy that renders it so politically useful? Why do gender and the conventions of the theater (e.g., role-playing, performance, and archetypal formations) figure so prominently in comedy? What fears and anxieties, monsters and grotesques lurk beneath the festive surfaces and masks of the comic? And finally: what can we make of comedy today, in what H. Frankfurt has identified as “the age and culture of B.S.?? Did I mention that this will be fun, too? No joke here. Seriously.

CSCL 3176 Oppositional Cinemas
4 credit(s); Meets CLE req of International Perspectives Theme;
meets CLE req of Other Humanities Core;
Instructor: Alvarez Lucas, Marisol
Description: From the deconstruction of cinematic style and the social practice 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, Affron, Nichols and Renov. Films include MAN WITH A MOVIE CAMERA, PARADISE LOST, DARE TO TELL THE TRUTH, SENIORITA EXTRAVIDADA, and HOOP DREAMS.

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, Affron, Nichols and Renov. Films include MAN WITH A MOVIE CAMERA, PARADISE LOST, DARE TO TELL THE TRUTH, SENIORITA EXTRAVIDADA, and HOOP DREAMS.

CSCL 3321W Theories of Culture
3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Opitz, Andrew Michael
Description: What is culture and where can it be found? How do we use this concept of 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 even goes so far as to call it “one of the two or three most complicated words in the English language.” In this course, we will work together to disentangle some of the different meanings attached to “culture” in the Western world. Students will be introduced to key works of cultural analysis by influential thinkers such as Matthew Arnold, Sigmund Freud, Karl Marx, Friedrich Nietzsche, Theodor Adorno and Franz Fanon. The course is also classified as writing intensive, so students will be expected to produce two substantial (6-7 page) essays in which they will analyze, compare and apply theoretical concepts to the cultural in the Western world.
Style: 70% Lecture, 30% Discussion.

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: Stout, Grant Allen
Description: This course investigates how science and the humanities relate, or are related, to one another. Here we will look at battles over truth, ethics, reality and the nature of “the human.” We will question the role of the humanities as a critical reflection upon the sciences and how the humanities offer a means through which to understand the role and nature of science as a social practice. Beyond this critical view, we will also examine the image of science within popular culture.
CSCL 3621W Colonial and Postcolonial Literatures and Theory; 1700 to the Present
3 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Tageldin, Shaden M
Description: Between 1700 and the 1950s, as one West was being "won" from Native Americans here in the United States, another West dominated and reinvented the rest of the world. While African, Asian, Central and Eastern European, Ottoman, and U.S. empires claimed foreign territories as their own during this period, their regional ambitions were no match for the transcontinental reach of the empires of Western Europe, especially the French and the British. By 1914, fully 85 percent of the earth had become "Western" territory. From a world mapped by modern European empire and remapped by the decolonization struggles of the 1960s and 1970s, when most of the earth's peoples sought to regain self-determination, the globe as we know it was born. In this course, we will explore the imperial roots of our "global" world in literary and theoretical texts by writers from both colonizing and colonized cultures in Africa, the Arab world, South Asia, and Europe. Our discussions will focus on the cultural and psychological dynamics and the political economy of the world under empire, decolonization, and globalization; the debts of nationalism to colonialism, and of globalization to empire; and the imprint of colonialism on migrations and diasporas. We will ask many questions of what we read: Is there art after empire? How do the world's literatures engage colonial modernist, attraction and resistance to colonial power, and the politics of postcolonial nationhood? How do race, ethnicity, religion and secularity, class, gender, and language figure in these engagements? If empire is more alive today than dead, can we speak of the "postcolonial"? Readings will include novels by Ba, Conrad, Djebar, de Duras, Forster, Salih, and Siddhwa as well as key theoretical texts by Fanon, Said, Spivak, and others.
Style: 25% Lecture, 10% Film/Video, 35% Discussion, 15% Small Group Activities, 15% Student Presentation.
Grading: 65% reports/papers, 20% in-class presentation, 15% class participation.

CSCL 3910 Topics in Cultural Studies and Comparative Literature: On Human Nature
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Sarles, Harvey B
Description: On Human Nature CSCL 3910 Human Nature is perhaps the most central subject of these times. In the current climates of increasing globalization, immigration, reactions, the questions surrounding who is human, who possesses or deserves what (and who does not), rises in our thinking. The study of Human Nature ranges from description to politics to religion to knowledge to nature to...In this course, Human Nature begins with each of us (you and I) and ranges to all the flowings of the globe. But there is much history about the human - some of these ideas persist, or are being reborn in the present moments. Questions range widely. How do humans differ from other species? Aspects of nature, or...? The range of subject arenas the course will discuss is wide and open: - who and what we are - how we go about studying and knowing the human: observe or? - what is particularly or uniquely human - political questions of what kind or type (a "class" of language, gender, etc.) is "more" human, or "deserves" more or - are we all "born equal" - are we individual or social? -what is the self? - minds and bodies? - or bodies-in-interaction? - or...? - how do we develop, grow? - prewired? ... or all is learned? - and what and how do we know? - religious questions: in nature or,...? Evolution vs. - the human body: what, how do we study it, "do" it? - history: ideas of mind and body from ancient philosophers - other species/animals: comparative thought? - primates to rodents and beyond. - more... The text for the course is Stephen Pinker's recent book: "The Blank Slate: The Modern Denial of Human Nature" - we will be doing a "critical" reading of this book, as it brings us big questions which have been considered "out-of-bounds" since World War II. What, why? Why now? Some humans superior or inferior to others? Not in "my book!" We will be discussing this book, as well as critical arguments about Pinker's ideas, the history of this thinking. We'll be doing some bodily movements as we try to describe the human (yoga, primarily), observe in as many contexts as we can from the newborn and its mom, to the aging body. Ideas from Pragmatism (G.H. Mead and John Dewey) will place the body in contexts which argue against the ancient dualisms of mind and body. Other readings will be distributed as suitable or desirable. References will include Sarles "Language and Human Nature" and others. Requirements: 2 Essays/Projects; Midsemester and Final in consultation with Professor Harvey Sarles.
Style: 100% Discussion.
Grading: 80% reports/papers, 10% attendance, 10% class participation.

CSCL 3910 Topics in Cultural Studies and Comparative Literature: Selected Writings in German Intellectual History
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Schulte-Sasse, Jochen
Description: Description: Selected close readings and discussions of articles or book excerpts that played a prominent role in German intellectual history from the late 18th century to the present. The class is cross-listed with CSCL. Classroom discussions are therefore in English. However, there will be two course packs, one in German and one in English. Students registering through German are expected to read the course material in the original language. Authors and texts included are listed below: Immanuel Kant, Idea for a Universal History from a Cosmopolitan Point of View (1784) Immanuel Kant, What is Enlightenment? (1789) Theodor Adorno, On Nationality, German Idealism (1796) Novalis, Sollnoguy (1798) Friedrich Schlegel, On Incomprehensibility (1800) Friedrich Schlegel, Concerning the Essence of Critique (1804) Heinrich von Kleist, On the Puppet Theater (1810) Heinrich Heine, On the History of Religion and Philosophy in Germany, Book II and III (1835) Karl Marx, Economic and Philosophical Manuscripts (1844) Friedrich Nietzsche, On Truth and Falsehood in Ultramoral Sense (1873) Sigmund Freud, On Narcissism: An Introduction (1914) Sigmund Freud, Repression (1915) Sigmund Freud, Negation (1923) Walter Benjamin, The Work of Art in the Age of Technical Reproducibility (1936) Herbert Marcuse, The Affirmative Character of Culture (1937) Martin Heidegger, The Age of the World Picture (1938) Max Horkheimer/Theodor W. Adorno, Odyssey or Myth and Enlightenment (1944) Max Horkheimer, The Concept of Man (1957). Depending on time left and student interest, there may be additional readings, in particular by Jurgen Habermas, Hans Blumenberg and Niklas Luhmann.

CSCL 3910H Topics in Cultural Studies and Comparative Literature: Honors: Modes of Attention
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Pepper, Thomas Adam
Description: This honors seminar will focus on ways in which attention is paid (or not: distraction is also part of attention) to philosophical, poetic, literary, critical, and film texts. These texts from both the ancient and modern world will include works by Plato, as well as great commentaries on him by Jacques Derrida ("Plato's Pharmacy") and Anne Carson (Eros the Bittersweet), Shakespeare (Hamlet) and Carl Schmitt's great essay on it, written from the vantage point of politics and theology, and just translated (Hamlet or Hecuba), the metamorphoses of Freud's modes of listening, which become psychoanalysis (Five Lectures on Psycho-analysis), as well as matters of dealing with sound-image texts, such as film, with Jean-Luc Godard (Two or Three Things I know About Her) read through the lens of Walter Benjamin's essays on distraction and his theory of knowledge. Other texts to be read include Clarice Lispector's last novel (The Hour of the Star), and texts on object-relations theory, distraction, and anxiety.

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: Hubbard, Kysa Koerper
Description: CSCL 3979 Issues in Cultural Pluralism The notion of cultural pluralism has been formally defined as the coexistence of a diversity of cultures within a larger, dominant society that
benefits (socially, culturally, economically, politically) from the maintenance of and respect for diversity. In theory, minority groups are treated as full and equal participants, as racial, ethnic, and religious discriminations become memories of the not-too-distant past and -isms of all kinds including nationalism, fascism, and fundamentalism in all of its guises (e.g., religious, ethnic, economic) become archaic relics of the past. Unfortunately, history has shown that not only are the laudable and desirable ideals of cultural pluralism difficult to achieve, in fact, when societies perceive themselves to be under threat, be it from war, social chaos, or economic distress, minority groups are often the first to be scapegoated. While such scapegoating might take the form of cable news networks directing the anger of the economically downtrodden towards undocumented (brown-skinned) workers or of the U.S. government’s imprisonment of nearly 120,000 Japanese-Americans during the Second World War, the common, underlying denominator driving these antagonistic emotions and hostile acts against targeted, less powerful Others is unfailingly the dominant majority’s overwhelming sense of anxiety and fear. In short, the rational, enlightened mind that might otherwise hold dear the liberal values of democratic government and all of the pluralisms it implies - political, religious, economic, cultural - can be unyieldingly and cunningly circumvented by the unthinking, visceral gut, resulting in devastating, anti-democratic consequences. This class explores the present threat that post 9/11 national and world events - including the U.S. War on Terror - pose to America’s democratic and pluralistic founding principles. Questions that we will not only ask, but seek to theorize and understand include but are not limited to: Is fear of a new, inscrutable enemy, a nebulous, impenetrable Other facilitating the closing of our open society? Have we come to a point where a majority of the electorate, regardless of political persuasion, is increasingly likely to believe that only one set (i.e., their set) of cultural/moral/political values is true, and all others are false, and thus deserving of their (righteous) distrust and hostility? Have we reflexively embraced the President’s ‘You’re either with us or you’re against us’ Manichean worldview? Are we trading our (and others’) freedom for security? What is freedom anyway? Who is ‘we’? Who is ‘Other’? And who or what exactly is ‘the enemy’? What are the core values in philosophy, economics, and critical theory including G.W.F. Hegel, Karl Marx, and Erich Fromm, the U.S. Constitution, and contemporary sociopolitical critique.

CSCL 5555 Introduction to Semiotics
3 credit(s)
Instructor: Peppercorn, 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, Sklovsky, Wimsatt and Beardsley, Winnicott.
Style: 70% Lecture, 30% Discussion.
Grading: 70% reports/papers, 10% in-class presentation, 20% class participation.
Exam Format: Paper

CSCL 5910 Topics in Cultural Studies and Comparative Literature: Pragmatism
3 credit(s), max credits 24, 8 repeats allowed
Instructor: Saries, Harvey B
Description: Pragmatism: The present moment is...interesting, important, and calls out for us to reframe the future of Democracy and Education. In addition, the question of what and who is a human being surfaces: ideas of the self, what and how we know, has become primary to much of our thinking about the world. In this odd political/economic/religion/educational moment, the works and thoughts of John Dewey and G.H. Mead and other American Pragmatists resurface. As Dewey was the primary shaper and practitioner of public schools, secular education, and progressive politics, he is also the “fall guy” of various attacks against democracy and public schools. Pragmatism will take on Dewey’s tasks, reframed in these times. We will discuss ideas, primarily through his book: “Democracy and Education.” The course will ask us to see where we are, how we got here, and attempt to shape - as Dewey would have us do - the future toward a participative democracy. Mead’s book, ‘Mind, Self, and Society’ will frame the questions of who and how we are. Mead’s ideas have recently re-entered our world via ‘Attachment Theory’ in Child Development. Humans are primarily interational - the self “emerges” from the relationship between infant and m/other. This is very different from most of our thinking about the human, and raises many questions not only about how we are, but offers a critique of the dualistic ideas of mind and body which continue to dominate the study of the human. Having discovered not very long ago, that we all have had m/others, the notion of the self will help us (as Dewey put it) to “reconstruct” philosophy. We’ll read excerpts (as useful) from some of Mead’s line of thought (Birdwhistell, Goffman, Sarles), and how they derived from early American Pragmatists, C.S.Peirce and Wm James. Texts: “Democracy and Education” by John Dewey. “Mind, Self, and Society” by G.H. Mead Course Requirements: Final Essay/Project in consultation with Professor Sarles.
Style: 100% 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: Peng Yun
Description: Cultural pluralism is a much debated term. For some people, it describes the current state of affairs in the United States. As such, it is either celebrated as America’s unique contribution to the world, or warned against as a dangerous phenomenon, capable of dividing American society and leading to ?tribalism.? Yet others contest the suggestion that American society is already as inclusive and pluralistic as the term makes us think. For some, cultural pluralism is an unfinished business, yet the ideal itself is valuable. Others, however, see something more sinister: the nice-sounding words, they argue, are covering up social issues and conflicts that cannot be resolved or reconciled within the current social structure and political framework. This is where we begin. In this class we do not strive to reach a definite conclusion about what cultural pluralism is/?, as much as to understand what issues are at stakes in this necessarily incoherent notion. We learn about the historical events and movements that have led up to the present phase of multiculturalism; we look into classical political theories to gain a better understanding of the terms underlying the contemporary cultural debates. We ask: Is pluralism compatible with representational democracy? Are liberty and equality in harmony or in tension? How should we understand “difference”?race, gender, class, ethnicity, sexuality, etc? Are differences more a matter of personal identity or are there underlying social, structural causes? Is it possible to truly see from an other’s perspective? If so, how can this capacity be cultivated? Does pluralism lead us down the path of relativism? Finally, we take cultural pluralism into the global context and look at its link with imperialism and the global spread of capitalism.
Style: 20% Lecture, 50% Discussion, 20% Small Group Activities.
Grading: 30% reports/papers, 15% attendance, 20% journal, 30% reflection paper, 5% class participation.

CSCL 5910 Topics in Cultural Studies and Comparative Literature: Neo-Realism and the Cinema
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Casarino, Cesare
Description: The title of this course points to its main premise: neorealism did not concern only the cinema. Although outside of Italy it is known as a film movement, neorealism was enmeshed in a thick fabric of other cultural phenomena, and, crucially, was also a literary movement. Moreover, literary neorealism preceded cinematic neorealism of two decades, as it emerged from the antifascist literary circles of the 1920s, which included figures such as Vittorini, Prattolini, Pavese, Moravia, Zavattini,
several of whom worked with neorealist filmmakers from the 1940s onwards. Furthermore, many of these literary figures were influenced by the nineteenth- and twentieth-century literature of the U.S., which was at first tolerated and then banned by the Italian fascist regime. U.S. authors from Poe to Faulkner, from Melville to (Minnesota’s own) Lewis and Fitzgerald, were translated into Italian as well as written about by the most important protagonists of literary neorealism. To make matters even more complex, what has been considered by many the first neorealist film?Visconti’s 1942 Ossessione?was a cinematic adaptation of Cain’s 1934 pulp fiction The Postman Always Rings Twice (which has had also two Hollywood film adaptations, in 1946 and 1981). While none of the above takes anything away from the fact that cinematic neorealism constituted an event that changed the cinema as an aesthetic form, it is nonetheless essential to consider how it found crucial inspiration in the literary traditions of both Italy and the U.S. This course, hence, will begin by investigating the links between these literary traditions and neorealist cinema. But this will be only the beginning. The course will proceed to study the most iconic as well as the lesser-known films of neorealism: we will analyze films by De Sica, Rossellini, Visconti, De Santis, and by filmmakers whose early works were rooted in neorealist cinema and who developed in different directions (Fellini, Pasolini, Antonioni, Bertolucci, Olmi, Rosi, Scola). The course will end with some reflections regarding the return of neorealism in contemporary Italian cinema, especially after 1992 (the inception of the European Union); the films of Amelio, Moretti, and Martone will be taken into consideration. Ultimately, this course is founded on a paradox: on the one hand, neorealism constituted a coherent new form in the cinema (i.e. an identifiable new set of stylistic and thematic features), and, on the other hand, it cannot be reduced to a unified aesthetic field, especially in view of the different types of cinematic developments it generated. In the end, this course aims to question the very category of ?neorealism.? In the process of this investigation, we will be watching one and often two films per week, and we will be reading both literary works that influenced neorealist cinema (Pavesi, Moravia, Pasolini) as well as secondary literature on neorealist cinema (Bazin, Deleuze, Sinyey, Liehm, Marcus, Rustivo.). Style: 30% Lecture, 50% Film/Video, 20% Discussion. Requirements for the course might include film viewings outside of class times. Grading: 20% final exam, 80% reports/papers. Attendance is required.

**Curriculum and Instruction**

145 Peik Hall

**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: 40% reports/papers, 10% special projects, 25% quizzes, 7% in-class presentation, 8% class participation, 10% other evaluation. Group projects

Exam Format: open-book quiz, presentation, or paper

**CI 1911 Ethics, Wealth, and Education in a Democracy**

A-F only, 3 credit(s); Meets CLE req of Citizenship/Publi Ethics Theme;
Instructor: Scarlett, Michael Hawkins
Description: This course tackles fundamental issues, broadly conceived, related to education and schooling. Its primary substantive goal is to examine the relationship between education and society. In doing this, we will look at the following set of broad questions: How does education shape individuals? How does it shape society? How does society, in turn, shape education? What is a good education? What is an education good for? The primary goal for this course is that the students and teacher shall gain a deeper understanding of these issues as they relate to American society. To that end, this course examines key texts in the field of educational studies, from a wide variety of traditions: philosophical, sociological, psychoanalytic, critical theoretical and historical. It will also examine some educational policy. As such, the course provides a grounding in the liberal arts tradition.

Style: 15% Lecture, 5% Film/Video, 50% Discussion, 25% Small Group Activities, 5% Student Presentation.

Grading: 50% reports/papers, 20% journal, 10% in-class presentation, 20% class participation.

**CI 3401 Children’s Literature: Pre-K Through Grade 5**

A-F only, 3 credit(s); prerequisite Jr or Sr or instr consent;
Instructor: Gaida, 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: Herring, Ava C
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: Clover, Faith M.
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: Hrenko, 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: DeLapp, Peggy Reed
Description: Student may contact the instructor or department for information.
but not without a struggle, and never once and for all. The educational and political project of critical pedagogy is exactly to enable students to engage in this struggle over meaning?in solidarity with the wretched of the earth; in the name of social justice, equality, and democratic community; and in preparation for and as part of transformative social action. This seminar explores critical pedagogy?not as a single or finished thing, but as a multivocal and unfinalizable word about how we might live and teach and learn together. We begin with two attempts to name critical pedagogy, by Freire and Kincheloe. Then, we extend and interrogate our understandings of critical pedagogy by reading the work of educators and scholars who draw on various critical perspectives?including indigenous, environmental, feminist, and postmodern?to imagine and practice a worthy pedagogy. Finally, we complicate and revise our developing conceptions of critical pedagogy, again, as we work with texts and films chosen by members of the class.

CI 5150 Curriculum Topics: Popular Culture and Education
3 credit(s), max credits 12, 12 repeats allowed;
Instructor: swiss,Thom
Description: Student may contact the instructor or department for information.

CI 5155 Contemporary Approaches to Curriculum: Instruction and Assessment
A-F only, 3 credit(s); prereq Grad students only;
Instructor: Lee-Nichols,Mary Elizabeth
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: Hoyt Jr,Danny Dexter
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: Un,Silvy
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: Nichols-Besel,Kristen M
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: Levy,Sara Ann
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: Coffino,Kara Lee
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 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: Mogush,Patsy H
Description: Student may contact the instructor or department for information.

CI 5254 Kindergarten Methods
A-F only, 2 credit(s); prereq Foundations of Education/Elementary Education or M.Ed./ILP Elementary Education;
Instructor: Doering,Aaron H
Description: Student may contact the instructor or department for information.

CI 5277 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 5336 Planning for Multimedia Design and Development
3 credit(s);
Instructor: MillerCharles Devaughn
Description: Student may contact the instructor or department for information.

CI 5363 Introduction to Multimedia Development
3 credit(s); prereq Competent computer user; 5362 recommended;

This information is accurate as of 9/15/2008 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 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: Student may contact the instructor or department for information.

CI 5401 Literature for the Elementary School
A-F only, 3 credit(s); prereq Children’s lit course or instr consent;
Instructor: Rapport, Rebecca T
Description: Student may contact the instructor or department for information.

CI 5410 Special Topics in the Teaching of Literacy: Politics of Literacy and Race in K-12 Classrooms
3 credit(s), max credits 12, 12 repeats allowed;
Instructor: Lensmire, Timothy J.
Description: This course explores the politics of literacy and race in classrooms (with politics understood both as how power plays out and in relation to creating democratic forms of life in schools). Theoretical and historical resources are developed first. Bakhtin’s writing on language, including his concepts of utterance, speech genre, and heteroglossia, help us explore the social life of language and literacy as they get used in different contexts by different people. Then, we take up two writers who characterize the racial situation in the US in different (but complementary) ways. Historian Matthew Jacobson helps us understand the historical fabrication, changeability, and contingencies of whiteness, with an eye to the power relations and social havoc it has generated; and the Reverend Thandeka, drawing on psychoanalytic theory and history, supports our examination of the racial identities created by our society and how these identities often undermine action that might improve our racial situation. With these beginnings, the course shifts to the close exploration of the workings of literacy and race in schools. We examine talk about race in educational settings and the larger educational community, and find that while it is often muted (as in Mica Pollock’s ethnographic study), it also always has the potential of exploding into loud controversy (as in the debate over Ebonics, chronicled by Theresa Perry and Lisa Delph). And we examine the work and lives of teachers and students in schools, with the help of Bob Fecho’s writing on his attempts to teach English in progressive ways and Daniel Yon’s research with youth as they create identities in ‘global times.’ Finally, we complicate and revise our emerging ideas one last time, as we work with texts and films chosen by members of the class. As educators, scholars, and citizens, we have responsibilities to participate intelligently and critically in conversations about school and society, especially as school and society continue to privilege some at the expense of others. The main goal and method of this course is to bring our own ideas about education, race, and literacy into dialogue with the ideas of others?other members of the class, as well as various researchers and writers. In this process, we will revise and better articulate our images of and commitments to a worthy education for all of our children and fellow citizens.

CI 5411 Teaching Reading in the Elementary School
A-F only, 3 credit(s);
Instructor: Rogers, Carrie Ann Barnes
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 5424 Reading, Language Arts, and Literature: Primary
A-F only, 3 credit(s); prereq Elem ed init lic;
Instructor: Rapport, Rebecca T
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: Knutson, Maggie MacCarthy
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: 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: O’Brien, David
Description: Student may contact the instructor or department for information.

CI 5461 Teaching Composition in the Secondary School
A-F only, 2 credit(s); prereq English initial licensure;
Instructor: Doerr, Candance Marie
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: Student may contact the instructor or department for information.

CI 5481 Developments in Teaching English and Speech
A-F only, 3 credit(s); prereq English initial licensure;
Instructor: Lewis, Cynthia
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 5501 Teaching Science and Health in the Elementary School
A-F only, 2 credit(s); prereq Elem ed initial licensure only;
Instructor: Fleming, Michelle A
Description: Methods and materials for teaching science and health at the elementary school level.
CI 5501 Teaching Science and Health in the Elementary School
A-F only, 2 credit(s); prereq Elem ed initial licensure only;
Instructor: Johnson, Roger T
Description: Methods and materials for teaching science and health at the elementary school level.

CI 5532 Teaching Secondary School Science
A-F only, 4 credit(s); prereq Admission to initial licensure program in science;
Instructor: Flynn, Leslie
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 M.Ed or grad student or instr consent;
Instructor: Flynn, Leslie
Description: Student may contact the instructor or department for information.

CI 5539 Research-based Decision-making in Science Education
A-F only, 3 credit(s); prereq M.Ed or grad student or instr consent;
Instructor: Roehrig, Gillian Heather
Description: Student may contact the instructor or department for information.

CI 5634 Content-Based Instruction in Second Language Settings
A-F only, 3 credit(s); prereq SLC initial licensure only;
Instructor: Ranney, Susan Elaine
Description: Student may contact the instructor or department for information.

CI 5635 Culture and Diversity in Second Language Classrooms
3 credit(s); prereq initial licensure program only;
Instructor: Bigelow, Martha
Description: Student may contact the instructor or department for information.

CI 5642 The Assessment of Learners with Limited English Proficiency
A-F only, 3 credit(s);
Instructor: Stone, Karla Rae
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: Leazer, Jennifer Susan
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: Stolpestad, Amy O'Connor
Description: Student may contact the instructor or department for information.

CI 5658 Second Language Testing and Assessment
A-F only, 3 credit(s);
Instructor: Tedick, Diane J
Description: Student may contact the instructor or department for information.

CI 5662 Issues in Second Language Curriculum Design
A-F only, 3 credit(s);
Instructor: Bigelow, Martha
Description: Student may contact the instructor or department for information.

CI 5699 Clinical Experiences in Second Languages
A-F only, 6-8 credit(s), max credits 16; prereq SLC initial licensure program only;
Instructor: Dudzik, Diana L
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 5111 or equiv, elem ed initial licensure only;
Instructor: Harrington, Judith M.
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 5111 or equiv, elem ed initial licensure only;
Instructor: Johnson, Terry
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 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, 25% Discussion, 25% Small Group Activities, 40% Guest Speakers.
Grading: 50% reports/papers, 20% special projects, 10% journal, 20% class participation.

CI 5747 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 5762 Developing Civic Discourse in the Social Studies
A-F only, 3 credit(s); prereq MEd or grad student;
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.

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...
CI 5900 Special Topics in Family, Youth, and Community: Learning circles: Foundation, theory, and practice
3 credit(s), max credits 20, 20 repeats allowed;
Instructor: Englund,Lynn A.
Description: LEARNING CIRCLES are an important pedagogical tool for professionals who work with diverse populations in classroom and community-based educational settings. Facilitators of the learning circle process reliably create small group learning environments in which participants feel safe enough to speak from the head and heart and engage with each other through respectful listening and dialogue. The circle process respects individual’s differences and helps participants to critically examine their own assumptions and beliefs. Facilitated learning circles can also help individuals and groups face adaptive challenges, problems or issues that can’t be resolved solely with technical solutions or prescribed techniques or skills. The ability to meet these challenges requires more than having knowledge about the problem or issue; emotions that arise in facing the adaptive challenge and taking new action must also be addressed by the individual and the group.
COURSE GOALS: Participate in and facilitate learning circle discussions in the classroom and community. Examine the historical uses of learning circles at Highlander Folk School. Become aware of the special nature of adaptive challenges. Examine concepts and theories that support pedagogical uses of learning circles. Reflect on learning circle experiences as a participant and a facilitator.
Style: 10% Film/Video, 50% Discussion, 20% Student Presentation, 20% Service Learning. Students will facilitate learning circles in class, or in the community as part of their service-learning and presentations.
Grading: 20% reports/papers, 20% special projects, 60% reflection paper.

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: Student may contact the instructor or department for information.

CI 5900 Special Topics in Family, Youth, and Community: Grief, Loss, Shattered Dreams and Family Education
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: 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: Student may contact the instructor or department for information.

CI 5908 Family and Work Relationships
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: WHRE 5201;
Instructor: Magistad,Beth Maddock
Description: Interactions of work and family roles, responsibilities, and aspirations, with consideration given to resources, legal aspects, and gender.

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: Lundell,Amy Jo
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 5945 Teaching and Learning in Parent Education
A-F only, 2 credit(s); prereq 5944;
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 5945;
Instructor: Walker PhD,Susan K
Description: Student may contact the instructor or department for information.

CI 5949 Student Teaching in Parent Education
A-F only, 2 credit(s); prereq 5946;
Instructor: Cooke,Betty Louise
Description: Student may contact the instructor or department for information.

CI 5954 Experiential Learning: Pedagogy for Community and Classroom
A-F only, 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: Skuza PhD,Jennifer Ann
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 Leadership
S-N only, 4 credit(s); prereq YDL student or instr consent;
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: 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 instructed
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: Sato, Mistilina
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: Bequette, James W
Description: Student may contact the instructor or department for information.

CI 8150 Research Topics Curr & Instruct: History and Theory of Social Education
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 8152 Teacher Learning and Professional Development
A-F only, 3 credit(s); prereq Grad student;
Instructor: Sato, Mistilina
Description: Student may contact the instructor or department for information.

CI 8412 Research in Reading
3 credit(s), max credits 6; prereq instr consent ;
Instructor: Helman, Lori A
Description: Student may contact the instructor or department for information.

CI 8461 Sociocultural Perspectives on Literacy Research
3 credit(s); prereq PhD student or [MA student, instr consent ];
Instructor: Lewis, Cynthia
Description: Student may contact the instructor or department for information.

CI 8570 Advanced Topics in Science Education: Nature of Scientific and Mathematical Inquiry
A-F only, 3 credit(s), max credits 6, 6 repeats allowed; prereq CI grad student or instr consent ;
Instructor: Roehrig, Gillian Heather
Description: Student may contact the instructor or department for information.

CI 8904 Families, Youth, Communities, and Education: Historical and Contemporary Perspectives
A-F only, 3 credit(s); prereq MEd or MA or PhD student;
Instructor: Pilhal, Jane
Description: Student may contact the instructor or department for information.

CI 8913 Interpretive Research
A-F only, 3 credit(s);
Instructor: Pilhal, Jane
Description: Student may contact the instructor or department for information.

DANCE 1020 Modern Dance Technique 2
2 credit(s), max credits 4; prereq 1010, dept consent;
Instructor: Virtuolo, Laura Anne Selle
Description: This course is the second of a two-sequence course on the Intermediate level of modern dance. 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.
Style: studio

DANCE 1020 Modern Dance Technique 4
2 credit(s), max credits 4; prereq 1010, dept consent;
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. Successful completion of previous level or departmental approval by audition required for registration.
Style: studio

DANCE 1040 Modern Dance Partnering Technique
A-F only, 1 credit(s); 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 credit.

DNCE 1020 Modern Dance Technique 4
2 credit(s), max credits 4; prereq 1010, dept consent;
Instructor: Virtuolo, Laura Anne Selle
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. Successful completion of previous level or departmental approval by audition required for registration.
Style: studio

DNCE 1020 Modern Dance Technique 4
2 credit(s), max credits 4; prereq 1010, dept consent;
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. Successful completion of previous level or departmental approval by audition required for registration.
Style: studio
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;  
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 1220 Jazz Technique 4  
1 credit(s), max credits 2; prereq 1210, dept consent;  
Instructor: Grotting,Karla Kaye  
Description: This 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 1220 Jazz Technique 4  
1 credit(s), max credits 2; prereq 1210, dept consent;  
Instructor: Garner,Cynthia Ann  
Description: This is the fourth of an eight-semester sequence of jazz dance technique/style. This class will introduce vocabulary and develop technical skills, using a variety of jazz dance styles while increasing flexibility, groundedness and strength. This will include more complex weight changes, rhythm patterns changes of direction and balances. Students will work on perfecting inside and outside pirouettes in plie and releve. Dancers will increase their understanding of musicality, dynamics, style and improvisation, and explore a basic understanding of the history of jazz music styles.  
Style: Studio

DNCE 1302 Tap Technique 2  
1 credit(s); prereq 1301 or instr consent;  
Instructor: Keane,Ellen  
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 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 1321 Ballroom 1  
1 credit(s);  
Instructor: Paulus III,Todd Eugene  
Description: This course is the first of a two-semester sequence of ballroom dance. Class work will focus on basic patterns in the fox trot, waltz, swing, cha-cha, rumba, and tango. Students will learn to utilize a variety of step patterns, lead and follow a partner smoothly and use the accepted characteristic style for each dance. This course will also focus on basic rhythmic fundamentals in ballroom dance such as meter, tempo, accent, and phrasing.  
Style: Studio  
Grading: 100% other evaluation. attendance, achievement, skill, attitude

DNCE 1325 Latin Dance  
1 credit(s);  
Instructor: Paulus III,Todd Eugene  
Description: This course is designed to give students an introduction to Latin dances and techniques. The course will cover basic vocabulary and lead/follow techniques of the most popular Latin social dance styles including: Salsa, Cha-Cha, Rumba, and Merengue. The first half of the class will focus on basic footwork and partnering for these various Latin social dances. The second half of the class will focus on rhythm and musical styling.  
Style: Studio

DNCE 1325 Latin Dance  
1 credit(s);  
Instructor: Rosenthal,Joy Davina  
Description: This course is designed to give students an introduction to Latin dances and techniques. The course will cover basic vocabulary and lead/follow techniques of the most popular Latin social dance styles including: Salsa, Cha-Cha, Rumba, and Merengue. The first half of the class will focus on basic footwork and partnering for these various Latin social dances. The second half of the class will focus on rhythm and musical styling.  
Style: Studio

DNCE 1331 Yoga  
1 credit(s);  
Instructor: Pick,Gretchen E  
Description: This course will give a basic introduction to the theory and practice of Yoga. The course will introduce the student to standing postures, forward bends and twists, balancing and seated postures, inversions, back bends, and guided relaxation and meditation. Course objectives include proper alignment, proper weight placement, body awareness, relaxation, and breathing techniques. Assignments will include an midterm paper and a movement demonstration final.  
Style: Studio

DNCE 1335 Tai 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 1347 Stott Pilates Conditioning
1 credit(s);
Instructor: Gleason, Pamela A
Description: This class is an introduction to Pilates Conditioning. This course will focus on mastering essential mat work of the Pilates method. Stott Pilates Conditioning is a contemporary approach to the mind-body system of exercise pioneered by Joseph Pilates. The neuro-muscular resistance exercises are designed to help develop a balanced musculoskeletal system - strong flexible muscles and better alignment - for optimal physical and mental well-being.

DNCE 1401 Introduction to Dance
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Brown, Maja Elizabeth
Description: Student may contact the instructor or department for information.

DNCE 3020 Modern Dance Technique 6
2 credit(s), max credits 4; prereq 3010, dept consent;
Instructor: Fink, 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 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;
Instructor: Janczewski, Matthew 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; audit registration not permitted;
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 grado 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; audit registration not permitted;
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 grado 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; audit registration not permitted;
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: Grotting, Karla Kaye
Description: This studio class will focus on intermediate skills of tap dance including pick-ups and wings. There will be a continuing emphasis on musicality and rhythm. We will practice intermediate footwork and combinations, time steps, work on a tap dance routine, and continue exercises for tap dance improvisation.
Style: Studio

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 3334 Introduction to Dance/Movement Therapy
2 credit(s); prereq dept consent;
Instructor: Nordstrom-Loeb, Barbara E
Description: This course is a basic introduction to the field of Dance/Movement Therapy. It will include 1) historic and theoretical perspectives on the use of movement and dance in relationship to psychology and healing; 2) an introduction to some of the major Dance/Movement Therapy pioneers and techniques; and 3) a brief introduction to ways that Dance/Movement Therapy is used with various populations and in a variety of settings. The class is both experiential and didactic. Objectives: The student will be able to: describe the field of Dance/Movement Therapy in relationship to related disciplines such as Dance, Psychology, Creative Arts Therapies, and physical therapy; and to experience a series of activities designed to give the student an understanding of the ways that movement, dance, and body awareness can be used as therapeutic tools.
Somatics and Complementary and Alternative Therapies; identify and discuss the basic premises, theory and approaches of Dance/Movement Therapy; be familiar with selected Dance/Movement Therapy pioneers and their contribution to the field of Dance/Movement Therapy; understand the uses of Dance/Movement Therapy with selected settings and populations; be familiar with training process and requirements for Dance Movement Therapy certification; apply Dance/Movement Therapy approaches to their own experience.

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.C. 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; Meets CLE req of International Perspectives Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Larasati,Diyah
Description: This course explores the historiography of dance in the context of the twentieth century through the present. We will focus on the reconstruction of dance practice/performance in the United States, and how this relates with the inclusion of "international" and "minority" bodies and dances. We will examine the ways in which dance as human expression and artistic creation is contextualized within the history of class, gender, and race relations. The staging of dance, relating to artistic and aesthetic choices influenced by this complex history, cannot be separated from the terrain of body and politics. We will analyze these politics by looking at negotiations among practitioners based on the inclusion and exclusion of certain types of bodies and practices, which both reclaim and disclaim specific historical paths (for example: traditional versus modern/ avant-garde, colonialism and the new global stage, and designations of center and marginal). Finally, we will examine how the political economy of the practices influences the negotiation of their ownership, circulation, and distribution.

DNCE 3433 Articulate Body
3 credit(s); prereq Dnce major, dept consent;
Instructor: Gleason,Pamela A
Description: This course will cover an introduction to kinesiology and biodynamics of dance. At the end of this course students will be able to apply 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 3601 Dance Composition 1
3 credit(s); prereq 1020, 1601, concurrent regis in a modern dance technique course, dept consent;
Instructor: Garner,Cynthia Ann
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. Successful completion of Improvisation or departmental approval required for registration.

DNCE 3601 Dance Composition 2
3 credit(s); prereq 3602, 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 4601 Dance Composition 3
3 credit(s); prereq 3602, concurrent regis in a modern dance technique course, dept consent;
Instructor: Flink,Carl Lindsay
Description: This course is the fourth of a six-semester sequence in Dance Composition. Class work will consist of exploration and structuring 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 4601 Dance Composition 3
3 credit(s); prereq 3602, concurrent regis in a modern dance technique course, dept consent;
Instructor: Smith, Joan Anne
Description: This course is the fourth of a six-semester sequence in Dance Composition. Class work will consist of exploration and structuring 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; audit registration not permitted;
Instructor: Pierce, Toni L
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.

DNCE 5120 Ballet Technique 8
1 credit(s), max credits 2; prereq 5110, dept consent; audit registration not permitted;
Instructor: Leon, Barry D
Description: This course is the eighth level of 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; audit registration not permitted;
Instructor: Grotting, Karla Kaye
Description: This is the eighth of an eight-semester sequence of jazz dance technique/style. This class will continue to introduce vocabulary and develop skills, technique, and style used in classical jazz dance while increasing flexibility and strength. Emphasis will be on more complex rhythms, patterns, turns, floor work, combinations, commitment to style, dynamics, musicality, improvisation, history and phrasing.
Style: studio

DNCE 5334 Introduction to Dance/Movement Therapy
2 credit(s); prereq dept consent;
Instructor: Nordstrom-Loeb, Barbara E
Description: This course is a basic introduction to the field of Dance/Movement Therapy. It will include 1) historic and theoretical perspectives on the use of movement and dance in relationship to psychology and healing; 2) an introduction to some of the major Dance/Movement Therapy pioneers and techniques; and 3) a brief introduction to ways that Dance/Movement Therapy is used with various populations and in a variety of settings. The class is both experiential and didactic. Objectives: The student will be able to: describe the field of Dance/Movement Therapy in relationship to related disciplines such as Dance, Psychology, Creative Arts Therapies, Somatics and Complementary and Alternative Therapies; identify and discuss the basic premises, theory and approaches of Dance/Movement Therapy; be familiar with selected Dance/Movement Therapy pioneers and their contribution to the field of Dance/Movement Therapy; understand the uses of Dance/Movement Therapy with selected settings and populations; be familiar with training process and requirements for Dance Movement Therapy certification; apply Dance/Movement Therapy approaches to their own experience.

DNCE 5454 (Re)Writing the Dancing Body
3 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: DNCE 4454W;
Instructor: Chatterjee, Ananya
Description: Student may contact the instructor or department for information.

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 5601 Dance Composition 5
1 credit(s); prereq 4601, 4602, dept consent;
Instructor: Paul, Stephen
Description: This 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 5700 Performance
1 credit(s), max credits 4, 4 repeats allowed; prereq concurrent enrollment in technique course, dept consent;
Instructor: Janczewski, Mathew Jay
Description: Registration by audition only.
Style: Rehearsal/Performance

DNCE 5700 Performance
1 credit(s), max credits 4, 4 repeats allowed; prereq concurrent enrollment in technique course, dept consent;
Instructor: Smith, Joan Anne
Description: Registration by audition only.
Style: Rehearsal/Performance

DNCE 5993 Directed Studies
1-4 credit(s), max credits 10, 10 repeats allowed; prereq instructor consent, dept consent, college consent;
Instructor: Kinney, Michelle Marie
Description: Student may contact the instructor or department for information.

Danish
205 Folwell Hall

DAN 1002 Beginning Danish
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: DAN 4002;
Instructor: Holm, Carsten
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: Holm, Carsten
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: Holm, Carsten
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: Holm, Carsten  
Description: Student may contact the instructor or department for information.

Dental Hygiene  
9-406 Malcolm Moos Health Sciences Tower

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: Osborn, Joy B  
Description:

DH 2231 Cariology and Applied Nutrition in Dental Hygiene Care  
A-F only, 3 credit(s); prereq DH student;  
Instructor: Van Erem, Roberta K.  
Description: Student may contact the instructor or department for information.

DH 4128 Oral and Maxillofacial Radiology Clinic III  
A-F only, 0 credit(s); prereq DH student;  
Instructor: Ahmad, Mansur  
Description: Student may contact the instructor or department for information.

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: Dittrich, Susan Kyle  
Description: Student may contact the instructor or department for information.

DH 4226 The Dental Hygiene Care Process Clinical Application VI  
A-F only, 1-5 credit(s), max credits 5, 1 repeat allowed;  
Instructor: Ahmann, Lisa Webb  
Description: Student may contact the instructor or department for information.

DH 4229 Oral and Maxillofacial Radiology Clinic IV  
A-F only, 3 credit(s); prereq DH student;  
Instructor: Ahmad, Mansur  
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: Dittrich, Susan Kyle  
Description: Student may contact the instructor or department for information.

DENT 5121 Physical Evaluation I  
A-F only, 2.6 credit(s);  
Instructor: Hamamoto, Darryl T  
Description: Student may contact the instructor or department for information.

DENT 5301 Introduction to Oral Biology  
S-N only, 2 credit(s);  
Instructor: Rudney, Joel David  
Description: Student may contact the instructor or department for information.

DENT 5302 Topics in Dental Biochemistry  
A-F only, 1 credit(s);  
Instructor: Dich, Edward Charles  
Description: Student may contact the instructor or department for information.

DENT 5315 Oral Histology and Embryology and Medical Genetics  
A-F only, 3 credit(s);  
Instructor: Gopalakrishnan, Rajaram  
Description: Student may contact the instructor or department for information.

DENT 5351 Introduction to Dental Biomaterials  
A-F only, 1 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 credit(s);  
Instructor: Born, David Omar  
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 5805 Operative Dentistry III  
A-F only, 3 credit(s); prereq Operative Dentistry [I, II], Operative Dentistry [I, II] Lab;  
Instructor: Lee, Ignatius Kaiyan  
Description: Student may contact the instructor or department for information.

DENT 5903 Preclinical Prosthodontics Lecture II  
A-F only, 2 credit(s); prereq 5901, 5902;  
Instructor: Barrero, Carlos H  
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: Barrero, Carlos H  
Description: Student may contact the instructor or department for information.

DENT 5909 Preclinical Prosthodontics Technique Lecture V  
A-F only, 3 credit(s); prereq 5901, 5902, 5903, 5904, 5905, 5906, 5907, 5908;  
Instructor: Cook, Gary Eugene  
Description: Student may contact the instructor or department for information.
Description: Student may contact the instructor or department for information.

DENT 5910 Preclinical Prosthodontics Technique Laboratory V
A-F only, 3 credit(s); prereq 5901, 5902, 5903, 5904, 5905, 5906, 5907, 5908;
Instructor: Cook,Gary Eugene
Description: Student may contact the instructor or department for information.

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 underserved 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 6023 Elective Short Term Externships
S-N only, 1-5 credit(s), max credits 10; prereq 3rd or 4th year DDS student;
Instructor: Buchanan,Judith A
Description: Student may contact the instructor or department for information.

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 II
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, 3 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 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: Hartel,Lucy M
Description: Student may contact the instructor or department for information.

DENT 6316 Oral and Maxillofacial Pathology
A-F only, 4 credit(s);
Instructor: Rohrer,Michael D
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.

DENT 6415 Professional Problem Solving
S-N only, 1 credit(s);
Instructor: Quick,Karin
Description: Student may contact the instructor or department for information.

DENT 6416 Professional Problem Solving
S-N only, 1 credit(s);
Instructor: Quick,Karin
Description: Student may contact the instructor or department for information.

DENT 6421 The Management and Supervision of a Dental Practice
A-F only, 2 credit(s);
Instructor: Johnson,Kimberly S
Description: Student may contact the instructor or department for information.

DENT 6443 Treatment Planning Clinic II
A-F only, 1 credit(s); prereq Patient Management II Resource Workbook;
Instructor: Nadeau,Richard D
Description: Student may contact the instructor or department for information.

DENT 6445 Treatment Planning Clinic IV
A-F only, 1 credit(s); prereq Patient Management II Resource Workbook;
Instructor: Nadeau,Richard D
Description: Student may contact the instructor or department for information.

DENT 6451 Dental Auxiliary Utilization (DAU) Clinic
S-N only, 2 credit(s);
Instructor: Klein,David William
Description: Student may contact the instructor or department for information.

DENT 6454 Dental Auxiliary Utilization (DAU) Clinic
S-N only, 2 credit(s);
Instructor: Klein,David W
Description: Student may contact the instructor or department for information.

DENT 6465 Emergency Clinic
S-N only, 2 credit(s);
Instructor: Hartel,Lucy M
Description: Student may contact the instructor or department for information.

DENT 6510 Pediatric Dentistry Clinic
A-F only, 5 credit(s); prereq Credit will not be granted if credit received for 6511, 6512, 6513, 6514, 6515;
Instructor: Yesil,Jasmine
Description: Student may contact the instructor or department for information.

DENT 6515 Pediatric Dentistry Clinic
DENT 6522 Orthodontics II
A-F only, 2 credit(s);
Instructor: Beyer, John Paul
Description: Student may contact the instructor or department for information.

DENT 6524 Orthodontic Clinic Rotation
S-N only, 1 credit(s);
Instructor: Beyer, John Paul
Description: Student may contact the instructor or department for information.

DENT 6613 Periodontology III Lecture
A-F only, 1 credit(s); Credit will not be granted if credit has been received for: DH 4231;
Instructor: Bakdash, Bashar
Description: Student may contact the instructor or department for information.

DENT 6622 Periodontology Clinic
A-F only, 2 credit(s);
Instructor: Carlson, Jeffrey F
Description: Student may contact the instructor or department for information.

DENT 6625 Periodontology Clinic
A-F only, 2 credit(s);
Instructor: Carlson, Jeffrey F
Description: Student may contact the instructor or department for information.

DENT 6712 Endodontic Clinic
A-F only, 2 credit(s);
Instructor: Bowles, Walter Ray
Description: Student may contact the instructor or department for information.

DENT 6714 Endodontic Topics for the General Dentist
S-N only, 0 credit(s); prereq Completion of 3rd yr of dental school;
Instructor: Schwensohn, Jane Marie
Description: Student may contact the instructor or department for information.

DENT 6807 Advanced Simulation Clinic Elective I
S-N only, 0.5 credit(s); prereq Enrolled in DDS program;
Instructor: Madden, Michael John
Description: This interactive elective course will expose dental students to operative dental procedures and to the advanced simulation clinic. It is designed to help develop psycho-motor skills so that the basic operative preparations can be performed according to the specifications of DentSim software at an acceptable level. Style: 85% Student Presentation, 15% Demonstration. Grading: 100% in-class presentation.

DENT 6812 Operative Dentistry Clinic II
A-F only, 4 credit(s); prereq Operative Dentistry I, II, III, Operative Dentistry I and II Lab;
Instructor: Ziegler, Edgar F
Description: Student may contact the instructor or department for information.

DENT 6815 Operative Dentistry Clinic V
A-F only, 4 credit(s); prereq Operative Dentistry I, II, III, Operative Dentistry I and II Lab;
Instructor: Ziegler, Edgar F
Description: Student may contact the instructor or department for information.
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,Joanis George
Description: Student may contact the instructor or department for information.

DENT 7081 Basic Concepts in Skeletal and Craniofacial Development
A-F only, 2 credit(s);
Instructor: Gopalakrishnan,Rajaram
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: Morrow,Leesa
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 8090 Evidence-based Clinical Pediatric Dentistry
A-F only, 2 credit(s);
Instructor: Grothe,Ronald L.
Description: Student may contact the instructor or department for information.

DENT 8100 Topics in Advanced Periodontology: Literature Review
2 credit(s);
Instructor: Costalonga,Massimo
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: Schillman,Eric L
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: Student may contact the instructor or department for information.

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.

DES 1907W Freshman Seminar: Here by Design: Design & Culture in Twin Cities
A-F only, 3 credit(s), max credits 3, 1 repeat allowed; prereq Fr; Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Boyd-Brent,James W
Description: The Twin Cities is a center for creative production in the United States. This seminar is an exploration of this creative environment: we will look at this vibrant local design environment from the point of view of design as cultural expression, and explore the connection between the culture of the Twin Cities and the design that is produced here. The Twin Cities was the home of such designers as the late Bill Stumpf, designer of the famous Aaron Chair, and is currently the home of such designers as Charles Spencer Anderson, creator of CSA Images, and design firms such as Blu Dot, Fallon, Aesthetic Apparatus, and Larsen + Interactive, as well as countless other creative professionals. It's also the home of growing Laotian, Hmong, Somali, Tibetan and Mexican communities who bring their own cultural sensibilities to the area, thereby affecting this designed environment. While learning about the diversity and excellence of local design practice, students will also learn what it's like to be a designer, how designers create, what the role of the designer is today, and who designers work for. We will look at examples of contemporary Twin Cities furniture design, graphic design, architecture, design of hand-made objects, clothing design, textile design, product design, and more. This course is also for anyone interested in why innovative design is important in our changing and increasingly diverse society.
Style: Numerous field trips during the semester. Some will be to design studios. We will visit design collections at the MIA and the Goldstein and look at design landmarks in the Twin Cities. Trips will be taken to culturally specific parts of town.
Grading: 90% reports/papers, 10% class participation.

DES 1910W Freshman Seminar: Heritage Landscapes: Planning & Design Special Plc
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed; prereq Fr; Meets CLE req of Writing Intensive;
Instructor: Nummally,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 2150H Honors Seminar: Lower Division: Critical Thinking
A-F only, 2 credit(s), max credits 3, 1 repeat allowed; prereq Honors program;
Instructor: Hokanson,Brad
Description: This course is about critical thinking, that is, thinking about your thinking and developing the skills you need to be a more effective thinker. Students from design, pre-med, business, or science that have taken this course have found it...
DES 4150H Honors Seminar: Upper Division: Wisdom, Sustainability, and Change
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed; prereq Honors, [jr or sr];
Instructor: Fisher, Thomas Ray
Description: With exponential growth in human population, global atmospheric carbon, and income inequality, along with the rapid diminishing of inexpensive oil, readily accessible water, and diversity of species, the next century will be one of great financial and material hardship for many. A change in consciousness about our relationship to nature and to ourselves will have to accompany our living a more sustainable future. This course looks at the wisdom cultures of both the East and West for guidance, with students reading from the Vedic, Buddhist, Taoist, Judeo-Christian, and Greco-Roman literature for advice on how to live a more environmentally friendly, socially responsible, and personally fulfilling life in the midst of declining resources. This course will look to the “wisdom” literature to identify ways in which a variety of cultures have specifically dealt with material hardship and how they have constructed environments for themselves with limited resources. We hope to equip students for the dramatic environmental and economic changes they will encounter and to enable them to become leaders in helping others adjust to the tremendous societal changes that lie ahead. The course will involve guest speakers periodically and an occasional field trip to connect to significant local ongoing work in the areas of wisdom and societal action.

DES 4120 Topics in Interdisciplinary Design: Information Design in Complex Systems
A-F only, 3 credit(s); max credits 15, 5 repeats allowed; prereq Design minor or instr consent; Instructor: Harder, Kathleen
Description: Are you interested in designing successful products or systems? In this course you will be introduced to a design philosophy centered on designing for human capabilities. The course will help you better understand the complex underlying design for human use. As a result, you will be better able to design a product or system that works well for the people who use it. You will learn a process, rather than memorize facts. You will be exposed to examples of complex systems (with design weaknesses and strengths) drawn from areas such as health care, transportation, architecture. Progressively more complicated examples will be used to illustrate the interaction between design and human information processing capabilities and constraints. You will discover the issues inherent in a number of design problems and you will be encouraged to generate design solutions that are likely to facilitate better user performance. You will learn to think about how to design from the perspective of various users within a single system and to anticipate ripple effects within that system. The interactive learning exercises will convey the underlying core principles of designing for users. To paraphrase Mick Jagger, users can’t always get what they want, but if you take this course, you just might find, you can help them get what they need. Intended for students from all disciplines?especially from Design, IT, and CSOM.

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.
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 where purposeful 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: Heckman, Joyce A
Description: Student may contact the instructor or department for information.

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

This information is accurate as of 9/15/2008 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 credits; 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 credits; 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 credits; 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 credits; 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 credits; max credits 8; prereq Plan
submitted/approved by [adviser, internship supervisor],
written approval of supervisor, instr consent;
Instructor: Tank, Angela Marie
Description: Student may contact the instructor or department
for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credits; max credits 8; prereq Plan
submitted/approved by [adviser, internship supervisor],
written approval of supervisor, instr consent;
Instructor: Carlson, Anna M
Description: Student may contact the instructor or department
for information.

DHA 2311 Drawing and Illustration
A-F only, 3 credits; prereq 1311, 1312, [DHA major or
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 2334 Computer Applications I: Digital Composition for Design
A-F only, 3 credits; prereq Plan
submitted/approved by [adviser, internship supervisor],
written approval of supervisor, instr consent;
Instructor: Martin, PhD Caren Samter
Description: This is an advanced computer design class that
focuses on the integration of design knowledge with Macintosh
Style: 25% Lecture, 25% Discussion. Studio time
Grading: 10% in-class presentation, 10% class participation,
80% other evaluation. Design projects

DHA 2334 Computer Applications I: Digital Composition for Design
A-F only, 3 credits; prereq Plan
submitted/approved by [adviser, internship supervisor],
written approval of supervisor, instr consent;
Instructor: Chung, 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.

DHA 2351 Graphic Design I: Text and Image
A-F only, 3 credits; prereq 2345, DHA major
submitted/approved by [adviser, internship supervisor],
written approval of supervisor, instr consent;
Instructor: Enz, Pamela Jean Richie
Description: Student may contact the instructor or department
for information.

DHA 2402 Residential Technology
A-F only, 3 credits; prereq Plan
submitted/approved by [adviser, internship supervisor],
written approval of supervisor, instr consent;
Instructor: Amin, Heba Yehia
Description: Student may contact the instructor or department
for information.

DHA 2463 Housing and Community Development
A-F only, 3 credits; prereq 1201, 2213;
Instructor: Gahring, Sherri Ann
Description: Student may contact the instructor or department

This information is accurate as of 9/15/2008 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.
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 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

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**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.

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**DHA 2613 Lighting Design and Life Safety Issues**  
A-F only, 4 credit(s); prereq [DHA major, pass portfolio review] or instr consent;  
**Instructor:** Peterson,Julie Ellen  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** LaBat,Karen Louise  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Ziebarth,Ann  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Hokanson,Brad  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Gahring,Sherri Ann  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Yust,Becky L  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Angell,William J  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Bye,Elizabeth Kersch  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Waldron,Carol C  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Chu,Sauman  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Boyd-Brent,James W  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Martin PhD,Caren Samter  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Williams,Gloria M  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Hadjiyanni,Tasoulla  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Chu,Sauman  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** DeLong,Marilyn R  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Guerin,Denise A  
**Description:** Student may contact the instructor or department for information.

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**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.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** DeLong,Marilyn R  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Zollinger,Stephanie Watson  
**Description:** Student may contact the instructor or department for information.

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**DHA 3196 Field Study: National or International**  
A-F only, 1-10 credit(s), max credits 10, 3 repeats allowed; prereq instr consent;  
**Instructor:** Chu,Sauman  
**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: Crump, Jeffrey R
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: Bruin, Marilyn J
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: Jasper, Daniel
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. Prerequisite: 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 3245 Multichannel Retailing
A-F only, 3 credit(s); prereq 1201;
Instructor: Lee, Jae Ha
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: 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: Boyd-Brent, James W
Description: This course will explore use of color in surface design with particular emphasis on hands on screenprinting (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 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 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: Martin PhD, Caren Samter
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: Emert, Deborah Easley
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.

**Exam Format:** WebVista based exams and quizzes.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: LaBat,Karen Louise
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Ziebarth,Ann
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Hokanson,Brad
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Gahring, Sherri Ann
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Bye, Elizabeth Kersch
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Hadjiyanni, Tasoulla
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Johnson, Kim KP
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: DeLong, Marilyn R
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Zollinger, Stephanie Watson
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: Bruin, Marilyn J
Description: Student may contact the instructor or department
for information.

**DHA 4160H Honors Capstone Project**
A-F only, 2 credit(s), max credits 4; prereq DHA honors;
Instructor: DeLong, Marilyn R
Description: Student may contact the instructor or department
for information.

**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 is a survey of the furniture and
domestic interiors of Europe and America between 1750 and the
present day, with an emphasis on the evolution of style. Although

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This information is accurate as of 9/15/2008 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 focus of this course will be primarily upon furniture, information about architecture, interior wall and floor coverings window treatments and soft furnishings will be included where possible.
*Style:* 80% Lecture, presentations
*Grading:* 60% mid exam, 15% final exam, 10% reports/papers, 15% special projects.

*Exam Format:* identification of images

**DHA 4165 Design and Globalization**
- **A-F only, 3 credit(s); prereq Jr or sr:** Credit will not be granted if credit has been received for: DHA 5165;
- **Instructor:** Hadjiyanni,Tasoulla
- **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:** LaBat,Karen Louise
- **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:** Ziebarth,Ann
- **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:** Hokanson,Brad
- **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:** Gahring,Sherri Ann
- **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:** Yust,Becky L
- **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:** Angell,William 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:** Bye,Elizabeth Kersch
- **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:** Waldron,Carol C
- **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:** Chu,Sauman
- **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:** Boyd-Brent,James W
- **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:** Martin PhD,Caren Samter
- **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:** Williams,Gloria M
- **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:** Guerin,Denise A
- **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:** Johnson PhD,Kim KP
- **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:** DeLong,Marilyn R
- **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:** Zollinger,Stephanie Watson
- **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:** McCarthy,Steven 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:** Crump,Jeffrey R
- **Description:** Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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); prerequisite Undergrad, instr consent;
Instructor: Johnson, Kim KP
Description: Student may contact the instructor or department for information.

DHA 4212W Dress, Society, and Culture
A-F only, 3 credit(s); prerequisite [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: Steil, Sarah Lynne
Description: Student may contact the instructor or department for information.

DHA 4217 International Developments in Textiles and Apparel
A-F only, 3 credit(s); prerequisite [1201, ApEc 1102, jr or sr or grad student]; [DHA major or minor or dept consent ]; Meets CLE req of International Perspective Theme;
Instructor: Chaney, Mary Alice
Description: Student may contact the instructor or department for information.

DHA 4226 Clothing Design Studio VI
A-F only, 4 credit(s); prerequisite 4225 with grade of at least C-;
DHA major;
Instructor: Park, Juylene
Description: Student may contact the instructor or department for information.

DHA 4247 Advanced Buying and Sourcing
A-F only, 3 credit(s); prerequisite 3242, [DHA major or minor or dept consent ];
Instructor: Kang, Minjeong
Description: Student may contact the instructor or department for information.

DHA 4330 Surface Fabric Design Workshop
A-F only, 4 credit(s), max credits 8;
Instructor: Otto, Barbara J
Description: Student may contact the instructor or department for information.

DHA 4334 Computer Applications II: Design for the Digital Environment
A-F only, 3 credit(s); prerequisite [2334 or instr consent ];[DHA major or DHA grad student or instr consent ], pass portfolio review;
Instructor: Fritchie, Louise Lystig
Description: Student may contact the instructor or department for information.

DHA 4340 Woven, Knit, and Non-Woven Fiber Design Workshop
A-F only, 4 credit(s), max credits 8;
Instructor: Chaney, Mary Alice
Description: Student may contact the instructor or department for information.

DHA 4345 Advanced Typographic Design
A-F only, 4 credit(s); prerequisite [2351, DHA major] or DHA grad student or instr consent;
Instructor: Steil, Sarah Lynne
Description: Student may contact the instructor or department for information.

DHA 4351 Design Process: Photography
A-F only, 3 credit(s); prerequisite 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 4355 Graphic Design Portfolio
S-N only, 2 credit(s); prerequisite [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, 4 credit(s); prerequisite 4354, DHA major; Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

DHA 4461 Housing Development and Management
A-F only, 3 credit(s); prerequisite [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); prerequisite [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 4465 Housing in a Global Perspective
A-F only, 3 credit(s); prerequisite [2401, 2463] or grad student or instr consent; Meets CLE req of International Perspective Theme;
Instructor: Ziebarth, Ann
Description: The purpose of this course is to develop a better
understanding of the linkages among demographic changes, economic connections, and public policies for housing around the world. Issues such as housing and economic development, housing and human well-being, as well as public policies and the activities of international development agencies will also be covered. We will consider the concept of sustainable development and housing in an attempt to assess what it might require for the world to attain a more sustainable future. Other topics include impacts on housing of rural to urban migration, economic globalization, civil conflict and war, and land distribution.

Style: 50% Lecture, 5% Film/Video, 10% Discussion, 25% Student Presentation.
Grading: 40% reports/papers, 20% in-class presentation, 40% other evaluation. In class activities, quizzes, homework assignments comprise 40% of the course grading.

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 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: Trzpcz, Stefnee Jayne
Description: Student may contact the instructor or department for information.

DHA 5124 Consumers of Design
A-F only, 3 credit(s); prereq 5123 or equiv or instr consent
Instructor: Williams, Gloria M
Description: Student may contact the instructor or department for information.

DHA 5165 Design and Globalization
A-F only, 3 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: DHA 4165
Instructor: Hadjyanni, Tasoulla
Description: Student may contact the instructor or department for information.

DHA 5215 Product Development: Softlines
A-F only, 4 credit(s); prereq 2213 or clothing design major or retail merchandising major or grad student or instr consent
Credit will not be granted if credit received for: 4215
Instructor: LaBat, Karen Louise
Description: Follow the product development process to develop a product or product line for a Minnesota company. Work in teams of design and merchandising students to identify the product opportunity within guidelines presented by the company, research background information to develop the product, conduct ideaion sessions, select a product direction based on your research, develop and evaluate a prototype—present the results to the sponsoring company for their evaluation and feedback. Previous projects conducted in collaboration with Gander Mountain and Target Corporation. Textbook: Apparel Merchandising: The line starts here by Jeremy Rosenau and David Wilson

DHA 5341 Interactive Design I
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); prereq [(4334 or 5341), [DHA major or DHA grad student]] or instr consent
Instructor: Daigle, Gregory Clark
Description: Student may contact the instructor or department for information.

DHA 5399W Theory of Electronic Design
A-F only, 3 credit(s); prereq [DHA major, sr] or grad student or instr consent; offered alternate yrs; Meets CLE req of Writing Intensive
Instructor: Hokanson, Brad
Description: This course examines the aesthetic, functional, and design issues in multimedia. The class will discuss an extensive paper addressing a current issue in digital design is required; this paper will be copied and distributed to the members of the class and others in the graphic design and new media community of the University. A significant portion of the course will be conducted in an online [threaded] discussion group.

Style: 80% Discussion, 5% Laboratory. Projects
Grading: 20% mid exam, 20% reports/papers, 30% class participation, 30% other evaluation. Threaded discussion group
Exam Format: Written essay questions examining issues of electronic design

DHA 5463 Housing Policy
A-F only, 3 credit(s); prereq 2401, 2463 or instr consent
Credit will not be granted if credit has been received for: PA 5261
Instructor: Goetz, Edward Glenn
Description: This course will explore the institutional and environmental setting for the making of housing policy in the United States. We will examine competing ideas and solving the nation's housing problems through public intervention in the market. In so doing, we will evaluate federal and local public sector responses to housing problems in this country, taking a look at the role of non-profit developers and the different approaches taken by successive federal administrators in the United States.

Style: 80% Lecture, 20% Discussion.
Grading: 25% mid exam, 30% final exam, 15% class participation.
Exam Format: Essay and short answer.

DHA 5469 Understanding Housing: Assessment and Analysis
A-F only, 3 credit(s); prereq [2401, 2463] or instr consent
Instructor: Crump, Jeffrey R
Description: This course will be conducted in an online [threaded] discussion group. A significant portion of the course will be conducted in an online [threaded] discussion group.

Style: Goetz, Edward Glenn
Grading: 22% in-class presentation, 23% class participation, 41% laboratory evaluation, 14% problem solving.

DHA 5471 Housing Studies Certificate Seminar
A-F only, 2 credit(s); prereq Admitted to Housing Studies Certificate Prog
Instructor: Bruin, Marilyn J
Description: Student may contact the instructor or department for information.

DHA 5471 Housing Studies Certificate Seminar
A-F only, 2 credit(s); prereq [2401, 2463] or instr consent
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 6103 Methodological Orientations: Qualitative Research
A-F only, 3 credit(s)
Instructor: Bruin, Marilyn J
Description: Student may contact the instructor or department for information.

DHA 6114 Design Studio
A-F only, 4 credit(s); prereq instr consent
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

DHA 6164 Innovation Theory and Analysis
Instructor: Zollinger, Stephanie Watson
Description: Student may contact the instructor or department for information.
A-F only, 3 credit(s);
Instructor: DeLong, Marilyn R
Description: Student may contact the instructor or department for information.

DHA 8181 Ethics and Research
S-N only, 1 credit(s); prerequisite 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;
prerequisite instructor 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;
prerequisite instructor 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;
prerequisite instructor 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;
prerequisite instructor 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;
prerequisite instructor 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;
prerequisite instructor 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;
prerequisite instructor 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;
prerequisite instructor consent;
Instructor: Boyd-Brent, James W
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;
prerequisite instructor consent;
Instructor: Hadjiyanni, Tasoulla
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;
prerequisite instructor consent;
Instructor: Martin, PhD, Caren Samter
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;
prerequisite instructor consent;
Instructor: Williams, Gloria M
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;
prerequisite instructor consent;
Instructor: DeLong, Marilyn 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;
prerequisite instructor consent;
Instructor: McCarthy, Steven 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;
prerequisite instructor consent;
Instructor: Zollinger, Stephanie Watson
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;
prerequisite instructor consent;
Instructor: DeLong, Marilyn 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;
prerequisite instructor 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;
prerequisite instructor consent;
Instructor: Waldron, Carol C
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;
prerequisite instructor consent;
Instructor: Boyd-Brent, James W
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;
prerequisite instructor consent;
Instructor: Hadjiyanni, Tasoulla
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;
prerequisite instructor consent;
Instructor: Martin, PhD, Caren Samter
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;
prerequisite instructor consent;
Instructor: Williams, Gloria M
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;
prerequisite instructor consent;
Instructor: DeLong, Marilyn R
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 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 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: Boyd-Brent, James W
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: Bye, Elizabeth Kersch
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: Chu, Sauman
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: Johnson PhD, KP
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: LaBarth, 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: 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: 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: 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: 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;
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Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
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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: 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: 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: 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: 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: 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: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

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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.

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.

S-N only, 3 credit(s); prereq DHA master's student, instr consent; 
Instructor: Williams,Glora M 
Description: Student may contact the instructor or department for information.

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.

S-N only, 3 credit(s); prereq DHA master's student, instr consent; 
Instructor: Johnson PhD,Kim KP 
Description: Student may contact the instructor or department for information.

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.

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.

S-N only, 3 credit(s); prereq DHA master's student, instr consent; 
Instructor: Crump,Jeffrey R 
Description: Student may contact the instructor or department for information.

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.

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.

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Student may contact the instructor or department for information.
DHA 8262 Writings on Dress: Historical Perspectives  
A-F only, 3 credit(s);  
Instructor: Williams,Gloria M  
Description: Student may contact the instructor or department for information.

DHA 8361 Color, Design, and Human Perception  
A-F only, 3 credit(s); prereq Basic color theory course or instr consent;  
Instructor: Martinson,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: 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: Boyd-Brent,James W  
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: McCarthy,Steven J  
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: Hokanson,Brad  
Description: Student may contact the instructor or department for information.

DSSC 8212 Doctoral Research Workshop in Development Studies and Social Change  
S-N only, 1 credit(s); prereq Grad DSSC minor or instr consent;  
Instructor: Anderson Ph.D.,Dorothy Helen  
Description: Student may contact the instructor or department for information.

Dutch  
205 Folwell Hall

DTCH 1002 Beginning Dutch  
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: DTCH 4002;  
Instructor: Beuker,Brechtle Cornelia Maria  
Description: This course continues the presentation of language skills (speaking, writing, listening, and reading) begun in Dutch 1003 with a special focus on the extension of speaking and writing skills (in preparation for the GPT and OPI). We will finish "Code Nederlands" 2. For grammar review and exercises, we will continue to use "Better Nederlands." Class time will be devoted mostly to speaking and pre-writing activities. Students will write 5 formal essays, each of which will be followed by a rewrite. In addition, the students 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. Students should expect an average of three hours of preparation per class session. See the description for Dtc 4004 for an option for qualified students to register for this course for 2 credits instead of 5 credits.  
Style: 20% Lecture. Interactive speaking and writing exercises  
Grading: 30% reports/papers, 30% quizzes, 40% in-class presentation.  
Exam Format: Quizzes, essays

DTCH 3012 Conversation and Composition  
3 credit(s); prereq 3011;  
Instructor: Beuker,Brechtle Cornelia Maria  
Description: Student may contact the instructor or department for information.

DTCH 3510 Topics in Dutch Culture: Dutch Culture in Text & Image  
3 credit(s), max credits 9, 3 repeats allowed; prereq No knowledge of Dutch required;  
Instructor: Beuker,Brechtle Cornelia Maria  
Description: Student may contact the instructor or department for information.

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: Beuker,Brechtle Cornelia Maria  
Description: Student may contact the instructor or department for information.

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: Beuker,Brechtle Cornelia Maria  
Description: See the description for Dtc 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 Dutch 1003 under the number 4003 for 2 credits. Contact the department office, 612 (625-2080), for a permission number.

Style: 20% Lecture. Interactive speaking and writing exercises
Grading: 30% reports/papers, 30% quizzes, 40% class participation.
Exam Format: Quizzes, essays

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 jade 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 3461 Introduction to East Asia I: The Imperial Age
3-4 credit(s), max credits 4, 1 repeat allowed; Credit will not be granted if credit has been received for: HIST 3461; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Wang, Liping
Description: Student may contact the instructor or department for information.

EAS 3462 Introduction to East Asia II: 1600-2000
3-4 credit(s); 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 Perspect Theme;
Instructor: Isett, 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.
Grades are based on performance in mid-term (25%), final exam (35%), two 5-6 page papers (15% each), and participation in discussion (10%). The reading load is moderate to heavy, with about 75 pages a week in translate primary sources and secondary books.
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 3940 Topics in Asian History: Chinese Women and Family
3 credit(s), max credits 16, 16 repeats allowed; prereq Jr or sr or instr consent;
Instructor: Wang, Liping
Description: Student may contact the instructor or department for information.

EAS 3940 Topics in Asian History: Chinese Women and Family
3 credit(s), max credits 16, 16 repeats allowed; prereq Jr or sr or instr consent;
Instructor: Wang, Liping
Description: This course aims to help understand women and gender relations in Chinese society from 1600 to the present. It explores major themes and problems such as marriage and family life, foot binding, the cult of women's chastity, women in both the Nationalist and the Communist revolutions, and gender relations in post-socialist China. We will look at the effect of ideologies (Confucianism, nationalism, and socialism) on women and family life, and also differences between ideology and social practice. This course is open to undergraduates, both history major and non-major.
Style: Films and other visual materials will be used to compliment lectures and class discussion.

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 3407; Meets CLE req of Environment Theme;
Instructor: Sugita, Shinya
Description: What factors determine the occurrence, functioning and distribution of organisms on Earth? These factors include the physical environment, other individuals of the same and of different species and evolutionary processes that alter organisms' interactions with their physical and biological environment. Students will obtain a greater understanding of these influences. We will discuss human impacts and ecological dilemmas related to these topics. The course is designed for non-biology majors who have taken high school or introductory college biology.
Style: 80% Lecture, 20% Discussion.
Grading: 44% mid exam, 22% final exam, 33% other evaluation.
Exam Format: multiple choice

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 4793W Directed Studies: Writing Intensive
S-N only, 1-7 credit(s), max credits 7, 7 repeats allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Curtsginer, James W
Description: Student may contact the instructor or department for information.

EEB 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 4, 7 repeats allowed;
prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Oberhauser, Karen S
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>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>EEB 4994W</td>
<td>Directed Research: Writing Intensive</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;</td>
<td>prereq instr consent, dept consent; Meets CLE req of Writing Intensive;</td>
<td>Pusey, Anne Elizabeth</td>
<td>Student may contact the instructor or department for information.</td>
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<td>EEB 4994W</td>
<td>Directed Research: Writing Intensive</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;</td>
<td>prereq instr consent, dept consent; Meets CLE req of Writing Intensive;</td>
<td>Stephens, David William</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>EEB 4994W</td>
<td>Directed Research: Writing Intensive</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;</td>
<td>prereq instr consent, dept consent; Meets CLE req of Writing Intensive;</td>
<td>Jansa, Sharon A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EEB 4994W</td>
<td>Directed Research</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;</td>
<td>prereq instr consent, dept consent; Meets CLE req of Writing Intensive;</td>
<td>Zink, Robert Martin</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EEB 4994W</td>
<td>Directed Research</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;</td>
<td>prereq instr consent, dept consent; Meets CLE req of Writing Intensive;</td>
<td>Cavan-Dyer, Jacques O</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EEB 4994W</td>
<td>Directed Research</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;</td>
<td>prereq instr consent, dept consent; Meets CLE req of Writing Intensive;</td>
<td>Packer, Craig</td>
<td>Student may contact the instructor or department for information.</td>
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<td>EEB 4994W</td>
<td>Directed Research</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;</td>
<td>prereq instr consent, dept consent; Meets CLE req of Writing Intensive;</td>
<td>Fox, David L</td>
<td>Student may contact the instructor or department for information.</td>
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<td>EEB 4994W</td>
<td>Directed Research</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;</td>
<td>prereq instr consent, dept consent; Meets CLE req of Writing Intensive;</td>
<td>Jeyasingh, Puni</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EEB 8980</td>
<td>Seminar on Current Topics</td>
<td>S-N only, 2-3 credit(s), max credits 30, 10 repeats allowed;</td>
<td>prereq [1st yr or 3rd sem] grad student, instr consent;</td>
<td>Neuhauser, Claudia</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EEB 8980</td>
<td>Seminar on Current Topics</td>
<td>S-N only, 1 credit(s), max credits 30, 10 repeats allowed;</td>
<td>prereq [1st yr or 3rd sem] grad student, instr consent;</td>
<td>Neuhauser, Claudia</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>
**University of Minnesota - Course Guide for Twin Cities Campus**

**Spring 2008**

EEB 8980 Seminar on Current Topics  
S-N only, 1 credit(s), max credits 30, 10 repeats allowed;  
prereq [1st yr or 3rd sem] grad student, instr consent;  
Instructor: Pusey, Anne Elizabeth  
Description: Student may contact the instructor or department for information.

EEB 8980 Seminar on Current Topics  
S-N only, 1 credit(s), max credits 30, 10 repeats allowed;  
prereq [1st yr or 3rd sem] grad student, instr consent;  
Instructor: Simons, Andrew M.  
Description: Student may contact the instructor or department for information.

EEB 8980 Seminar on Current Topics  
S-N only, 1 credit(s), max credits 30, 10 repeats allowed;  
prereq [1st yr or 3rd sem] grad student, instr consent;  
Instructor: Simons, Andrew M.  
Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar  
1-3 credit(s), max credits 30, 10 repeats allowed;  
prereq instr consent;  
Instructor: Neuhauser, Claudia  
Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar  
1-3 credit(s), max credits 30, 10 repeats allowed;  
prereq instr consent;  
Instructor: Shaw, Ruth Geyer  
Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar  
1-3 credit(s), max credits 30, 10 repeats allowed;  
prereq instr consent;  
Instructor: Cotner, James B  
Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar  
1-3 credit(s), max credits 30, 10 repeats allowed;  
prereq instr consent;  
Instructor: Larson, Diane  
Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar  
1-3 credit(s), max credits 30, 10 repeats allowed;  
prereq instr consent;  
Instructor: Dean, Antony Michael  
Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar  
1-3 credit(s), max credits 30, 10 repeats allowed;  
prereq instr consent;  
Instructor: Barker, Fredrick K  
Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar  
1-3 credit(s), max credits 30, 10 repeats allowed;  
prereq instr consent;  
Instructor: Bee, Mark Allen  
Description: Student may contact the instructor or department for information.

**Economics**  
4-101 Hanson Hall

**ECON 1905 Freshman Seminar: Game Theory and Human Nature**  
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 environments, 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 how society and experimental analysis of human behavior in strategic situations. No special prerequisites are needed, 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 1905 Freshman Seminar: The Limits of Markets & The Limits of Government**  
A-F only, 3 credit(s); prereq freshman;  
Instructor: Chari, Varadarajan V  
Description: In this course, we will examine how markets work, when they work well and when they work poorly. We will trace how human well being is intrinsically tied into how governments intervene in markets, when such interventions are desirable. We will analyze how the despotism of governments has contributed to human misery and how limiting government power can lead to prosperity. The course will mainly be organized as a collection of readings. The readings will range from John Locke, Adam Smith and Milton Friedman to current blogs on the internet on economic issues. You will be required to read all the papers in the reading list and to write a final paper. The purpose of the course is to get the students to think critically about contemporary political and economic issues and to write clearly about contemporary events. By design, many of the readings will contain fallacies of economics as well as logic, and the aim is to learn how to spot fallacies.

**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 4163, instr consent;  
Instructor: Allen, Beth Elaine  
Description: Student may contact the instructor or department for information.

**ECON 4166 Microeconomic Analysis**  
2 credit(s); prereq 4166, instr consent;  
Instructor: Perri, Fabrizio  
Description: Student may contact the instructor or department for information.

**ECON 4167 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 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 4301 Economic Development**  
3 credit(s); prereq [[1101, 1102] or equiv], non-econ major;  
Credit will not be granted if credit has been received for:  
ECON 4331W;  
Instructor: Seker, Murat
ECON 4307 Comparative Economic Systems
2 credit(s); prereq 1101, 1102 or equiv; open to Econ majors; Credit will not be granted if credit has been received for: ECON 4337; Meets CLE req of International Perspect Theme;
Instructor: Obara, Ichiro
Description: Student may contact the instructor or department for information.

ECON 4431W International Trade
3 credit(s); prereq 3101, 3102 or equiv; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Simran
Description: Offered mainly for Economics majors, though we happily accept other students if they have successfully completed the prerequisites PRIOR to taking the course. 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. URL address will be available later.
Style: 90% Lecture, 10% Discussion.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% problem solving. Evaluation is subject to change.
Exam Format: essay and true/false explain.

ECON 4960 Topics in Economics
A-F only, 3 credit(s), max credits 6; prereq [3101 or 3102 or equiv], MATH 1271; may change based on topic;
Instructor: Fatih
Description: Student may contact the instructor or department for information.

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 [engineer 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: 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 8802 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 8802 or comparable abstract math course, grad econ major or instr consent;
Instructor: Kim Sau
Description: Student may contact the instructor or department for information.

ECON 8106 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 8113 Introduction to Mathematical Economics
2 credit(s); prereq 8112, Math 5616 or comparable abstract math course, concurrent enrollment 8103;
Instructor: Rahman, David
Description: Student may contact the instructor or department for information.

ECON 8118 Noncooperative Game Theory
2 credit(s); prereq 8117;
Instructor: Obara, Ichiro
Description: Student may contact the instructor or department for information.

ECON 8119 Cooperative Game Theory
2 credit(s); prereq 8104, Math 5616 or equiv or instr consent;
Instructor: Allen, Beth Elaine
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 8186 Advanced Topics in Macroeconomics
2 credit(s), max credits 4; prereq 8108 or instr consent;
Instructor: Keohoe, Patrick James
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: Allen, Beth Elaine
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: 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: Bajari, Patrick Ludwig
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: Smulitz 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: Chari, Varadarajan V
Description: Student may contact the instructor or department for information.
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: Kehoe, Timothy J
Description: Student may contact the instructor or department for information.

ECON 8501 Wages and Employment
2 credit(s); prereq 8102, 8106 or instr consent;
Instructor: Rios-Rull, Jose Victor
Description: Student may contact the instructor or department for information.

ECON 8502 Wages and Employment
2 credit(s); prereq 8501 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: Bajari, Patrick Ludwig
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: Petrin, Amil Kenneth
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 Ludwig
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: Holmes, Thomas Joseph
Description: Student may contact the instructor or department for information.

ECON 8706 Financial Economics
2 credit(s); prereq 8705 or instr consent;
Instructor: Werner, Jan
Description: Student may contact the instructor or department for information.

ECON 8803 Public Economics
2 credit(s); prereq 8802 or instr consent;
Instructor: Phelan, Christopher James
Description: Student may contact the instructor or department for information.

ECON 8881 Advanced Topics in Public Economics
2 credit(s), max credits 4; prereq 8803 or instr consent;
Instructor: Koehlerlakota, Narayana
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: Koehlerlakota, Narayana
Description: Student may contact the instructor or department for information.

EDHD 3001 Exploring the Teaching Profession
S-N only, 1 credit(s), max credits 4, 4 repeats allowed;
prereq Early admit for init lic/MEd program, college consent;
Instructor: Gilles, Jane F
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 MEd/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 [MEd/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 5007 Technology for Teaching and Learning
A-F only, 1.5 credit(s); prereq [MEd/initial licensure or CLA music ed major or preteaching major or instr consent], basic computer skills;
Instructor: Knapp, Wendy M
Description: Student may contact the instructor or department for information.
EDHD 5007 Technology for Teaching and Learning
A-F only, 1.5 credit(s); prerequisite [MED/initial licensure or CLA music ed major or preteaching major or instr consent], basic computer skills;
Instructor: Greenhow, Christine
Description: Students may contact the instructor or department for information.

EDHD 5007 Technology for Teaching and Learning
A-F only, 1.5 credit(s); prerequisite [MED/initial licensure or CLA music ed major or preteaching major or instr consent], basic computer skills;
Instructor: Pederson, Bjorn H
Description: Students may contact the instructor or department for information.

EDHD 5009 Human Relations: Applied Skills for School and Society
A-F only, 1 credit(s); prerequisite MED/initial lic or CLA music ed or preteaching or instr consent;
Instructor: Hilk, Caroline L
Description: Students may contact the instructor or department for information.

EDPA 1301W Personal Leadership in the University
3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;
Instructor: Porter, 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 leaders within the University of Minnesota and learn about the importance of personal development.

EDPA 1301W Personal Leadership in the University
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: 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 2124 Intercultural Communication and Service Learning: Interdisciplinary Approaches to Public Engagement
A-F only, 3 credit(s);
Instructor: Williams, Andrew L
Description: Students may contact the instructor or department for information.

EDPA 3010 Special Topics for Undergraduates: Religion, Ethics, and Educational Policy
3 credit(s), maximum credits 9, 9 repeats allowed;
Instructor: Osburn Jr, Robert H
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.

EDPA 3102 Leadership, You, and Your Community
3 credit(s); prerequisite [1301W or PA 1961W], grade of at least C, 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. Students taking this course will have the opportunity to examine their own views on 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 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
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Spring 2008

EDPA 3302 Leadership, You, and Your Community  
3 credit(s); prerequisite [3301W or PA 3961W], 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: Atwood, Susan J  
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); prerequisite [3302W or PA 3961W] with a grade of at least C; Credit will not be granted if credit has been received for: PA 3971;  
Instructor: Werner, Linnette  
Description: The leadership experience is an internship-based course that encourages civic engagement and provides practical leadership situations for students to apply the theories and concepts learned in the previous two leadership courses. Students will identify three goals, competencies, or skills they wish to further develop during the semester. Students will serve as Public Achievement coaches at St. Bernard's School in St. Paul where the middle and high school students are getting involved in constructing projects around issues in their school/community. In the process, they are learning about leadership, public work, and public life. Coaches help with the projects and facilitate group learning. The experience is intended to provide undergraduate students with an exciting opportunity to integrate theoretical reflection on leadership, social change, and civic engagement. The coach's role will be to help younger citizens think and speak more clearly about the political world (in a language populated with concepts concerning public work, power, freedom, interests, and problem-solving) and help students cultivate the leadership skills of deliberation, negotiation, teamwork, and public speaking. Through this work, students in the field experience will learn about their own leadership styles, skills, and goals.

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, that is, 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: Brunner, C. Cyress  
Description: Classical/current theories of organizations. Applications to education and related fields.

EDPA 5023 History of Western Educational Thought  
3 credit(s); Credit will not be granted if credit has been received for: HUM 4023;  
Instructor: Nunneley, Richard Dean  
Description: Student may contact the instructor or department for information.

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 student's 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: Gender in Higher Education  
3 credit(s), max credits 24, 24 repeats allowed;  
Instructor: Ropers-Huilman, Rebecca Lynn  
Description: Topic: Gender in Higher Education

EDPA 5101 International Education and Development  
3 credit(s);  
Instructor: Dejaeghere, Joan Geralyn  
Description: This course examines social science theories regarding the relationship between /education/ and /development/. Education is broadly defined to include all levels, from early childhood to post-secondary, as well as types (formal, non-formal, informal). Development is considered in global, regional, national, local and human/personal terms. The concept of development, in economic, political and sociocultural terms, is explored and critiqued through multidisciplinary perspectives and from historical to contemporary debates in social science theories. In writing groups and discussions, students analyze and critique a range of theories, from human capital to modernization to feminism to post colonial theories. We examine hypotheses, assumptions, and empirical evidence that explains, or negates, education's role in the development of societies. Critical issues in education and development are discussed. An important objective of this course is to understand and critically analyze theories and their use in explaining education's role in development.

This information is accurate as of 9/15/2008 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>Instructor</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPA 5102</td>
<td>Knowledge Formats and Applications: International Development Education Contexts</td>
<td>3</td>
<td>Harkins, Arthur M</td>
<td>Broadband Internet access, newer computer</td>
<td>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.</td>
</tr>
<tr>
<td>EDPA 5121</td>
<td>Educational Reform in International Context</td>
<td>3</td>
<td>Chapman, David W</td>
<td>Broadband Internet access, newer computer</td>
<td>Critical policy analysis of educational innovation and reform in selected countries. Use theoretical perspectives and a variety of policy analysis approaches to examine actual educational reforms and their implementation.</td>
</tr>
<tr>
<td>EDPA 5124</td>
<td>Critical Issues in International Education and Educational Exchange</td>
<td>3</td>
<td>Fry, Gerald Walton</td>
<td>Broadband Internet access, newer computer</td>
<td>Analysis of comprehensive policy-oriented frameworks for international education; practices of U.S. and other universities; conceptual development of international education and its practical application to programs, to employment choices, and to pedagogy.</td>
</tr>
<tr>
<td>EDPA 5128</td>
<td>Anthopology of Learning</td>
<td>3</td>
<td>Demerath, Peter</td>
<td>Broadband Internet access, newer computer</td>
<td>Credit will not be granted if credit has been received for: ANTH 5128;</td>
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</table>
| EDPA 5132   | Intercultural Education and Training: Theory and Application | 3        | Kappler, Barbara Jean | Broadband Internet access, newer computer | Critical content of youth policy.  

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Instructor</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPA 5142</td>
<td>Global Youth Policy and Leadership: Strategic Projections, Vision, and Alternative Futures</td>
<td>A-F only, 3</td>
<td>Harkins, Arthur M</td>
<td>Broadband Internet access, newer computer</td>
<td>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.</td>
</tr>
<tr>
<td>EDPA 5310</td>
<td>Data-Driven Decision Making I</td>
<td>1</td>
<td>Nielsen, Kristine Bryan</td>
<td>Broadband Internet access, newer computer</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EDPA 5314</td>
<td>School Technology Safety and Security</td>
<td>1</td>
<td>Burke, Michael Alan</td>
<td>Broadband Internet access, newer computer</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EDPA 5324</td>
<td>Financial Management for Elementary-Secondary Education</td>
<td>3</td>
<td>Alexander, Nicola</td>
<td>Broadband Internet access, newer computer</td>
<td>Provides an overview of state-local school finance systems, budgeting, governmental fund accounting, and interpretation of financial information. For graduate students pursuing licensure as elementary-secondary principals and superintendents.</td>
</tr>
<tr>
<td>EDPA 5348</td>
<td>Administration of Human Resources in Education</td>
<td>2</td>
<td>Lovett, Michael James</td>
<td>Broadband Internet access, newer computer</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EDPA 5356</td>
<td>Disability Policy and Services</td>
<td>3</td>
<td>Johnson, David Richard</td>
<td>Broadband Internet access, newer computer</td>
<td>Critical policy analysis of educational innovation and reform in selected countries. Use theoretical perspectives and a variety of policy analysis approaches to examine actual educational reforms and their implementation.</td>
</tr>
<tr>
<td>EDPA 5361</td>
<td>Project in Teacher Leadership</td>
<td>S-N only, 3</td>
<td>York-Barr, Jennifer</td>
<td>Broadband Internet access, newer computer</td>
<td>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.</td>
</tr>
<tr>
<td>EDPA 5368</td>
<td>Special Services Policy and Administration</td>
<td>3</td>
<td>Riesgraf, Kim Marie Wogensen</td>
<td>Broadband Internet access, newer computer</td>
<td>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.</td>
</tr>
<tr>
<td>EDPA 5381</td>
<td>The Search for Children and Youth Policy in the U.S.</td>
<td>3</td>
<td>Schneider, Byron J</td>
<td>Broadband Internet access, newer computer</td>
<td>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.</td>
</tr>
<tr>
<td>EDPA 5385</td>
<td>Licensure Seminar</td>
<td>S-N only, 1</td>
<td>Werner, Ann Zweber</td>
<td>Broadband Internet access, newer computer</td>
<td>Preparation for licensure program. Program overview, preassessment, reflective practice, APA writing, exit panel review, administrative employment interview.</td>
</tr>
<tr>
<td>EDPA 5386</td>
<td>Portfolio Seminar</td>
<td>S-N only, 1</td>
<td>Broadband Internet access, newer computer</td>
<td>Broadband Internet access, newer computer</td>
<td>Preparation for licensure program. Program overview, preassessment, reflective practice, APA writing, exit panel review, administrative employment interview.</td>
</tr>
</tbody>
</table>
is required (or allowed) in 5385;
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 Administration of Teaching and Learning
2 credit(s); prereq Undergraduate degree;
Instructor: Yorke-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 Administration of Community and Alternative Education Programs
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 School Finance Elections in the 21st Century:
Instructor: Blasing, Theodore
Description: Student may contact the instructor or department for information.

EDPA 5396 Field Experience in PK-12 Educational Administration
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: Ghere, Gail S
Description: Introduction to program evaluation. Planning an evaluation study, collecting and analyzing information, reporting results; evaluation strategies; overview of the field of program evaluation
Style: 30% Lecture, 70% Discussion.
Grading: 20% mid exam, 70% reports/papers, 10% class participation.
Exam Format: Multiple choice; short answer

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 in areas 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: Rogers-Hulliman, Rebecca Lynn
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.

EDPA 8095 Problems: 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 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: Dejaeghere, Joan Geralyn
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 (schnee003@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...
EDPA 8321 Data Analysis for Educational Management  
3 credit(s);  
Instructor: Anderson, Melissa S.  
Description: Student may contact the instructor 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 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 8595 Evaluation Problems  
1-6 credit(s), max credits 24, 24 repeats allowed; prereq [5501 or EPSY 5243], infr consent; Credit will not be granted if credit has been received for: EPSY 8295;  
Instructor: Yeh, Stuart S  
Description: Student may contact the instructor for information.

EDPA 8596 Evaluation Internship  
1-9 credit(s), max credits 24, 24 repeats allowed; prereq [5501 or EPSY 5243], infr consent; Credit will not be granted if credit has been received for: EPSY 8296;  
Instructor: Johnson, David Richard  
Description: Student may contact the instructor for information.

EDPA 8702 Administration and Leadership in Higher Education  
3 credit(s); prereq 5001, 5701;  
Instructor: Holdsworth, Janet Michele  
Description: Student may contact the instructor for information.

EDPA 8703 Public Policy in Higher Education  
A-F only, 3 credit(s); prereq 5001, 5701;  
Instructor: Poch, Robert Karl  
Description: Student may contact the instructor for information.

EDPSY 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
Grading: 22% mid exam, 22% final exam, 17% reports/papers, 17% quizzes, 22% other evaluation. Homework
Exam Format: Short-Answer, 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: Whipple, Heather
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: Dixon, Jared
Description: This course is designed to provide an overview of introductory statistics. This class is intended for undergraduate students who have completed a high school algebra course but have not previously studied statistics. The topics covered in this course include sampling methods, experimental design, data exploration (e.g., using graphical and numerical summaries), data modeling and simulation, normal distributions, methods of statistical inference (estimation and testing), correlation, and simple linear regression. Upon completion of this introductory course, students should be able to: (1) think critically about statistics used in magazines, newspapers, and journal articles, (2) reason about data, and (3) apply the knowledge gained in the course to begin to answer simple research questions using empirical data. Students are expected to keep up with all required readings and assignments, as well as to be active participants in the course. Active participation includes asking and answering questions in discussion groups. It is also expected that all students have a basic understanding of computer use (e.g., e-mail, web browsers, word-processing software, etc.). Style: 10% Lecture, 30% Discussion, 60% Small Group Activities.
Grading: 22% mid exam, 22% final exam, 17% reports/papers, 17% quizzes, 22% written homework.
Exam Format: Short-answer, multiple choice

EPSY 5101 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. The midterm and final examinations will consist of short answer essay questions. Students will learn prior to the examinations the essay questions to be used in them. Each student will complete brief reviews of ten text chapters and critical reviews of one scholarly article, with both text chapters and articles to be selected by the student. Each student will receive corrective feedback on a draft of a portion of the term paper prior to the completion of the term paper assignment. Each student will also make a class presentation on one of the scholarly articles. The course will be "Web Enhanced."
Style: 40% Lecture, 30% Discussion. presentations; web enhanced course (URL not yet available)
Grading: 10% mid exam, 20% final exam, 50% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: short essay

EPSY 5112 Knowing, Learning, and Thinking
A-F only, 4 credit(s);
Instructor: Jorczak, Robert L
Description: Student may contact the instructor or department for information.

EPSY 5114 Psychology of Student Learning
A-F only, 3 credit(s);
Instructor: Gustafson PhD, Mary
Description: Principles of educational psychology: how learning occurs, why it fails, and implications for instruction. Topics include models of learning, development, creativity, problem-solving, intelligence, character education, motivation, diversity, special populations.

EPSY 5135 Human Relations Workshop
4 credit(s);
Instructor: Pabon, Maria
Description: Student may contact the instructor or department for information.

EPSY 5142 Play in Development and Education
A-F only, 3 credit(s); prerequisite Course in child or developmental psychology;
Instructor: Pellegrini, Anthony D
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 findings presented in book chapters and research articles. Students participate with other course members through online discussion groups. 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:
Standard Setting
1 credit(s), max credits 30, 30 repeats allowed;
Instructor: Rodríguez, Michael C.
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: Rodríguez, Michael C.
Description: Student may contact the instructor or department for information.

EPSY 5246 Evaluation Colloquium: Psychological Foundations
S-N only, 1 credit(s), max credits 8, 8 repeats allowed;
prerequisite 5243 or EDPA 5501; Credit will not be granted if credit has been received for: EDPA 5524;
Instructor: Johnson, David Richard
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 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 graphical 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: Russ, Suzanne L  
Description: Student may contact the instructor or department for information.

EPSY 5261 Introductory Statistical Methods  
3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231;  
Instructor: Dupuis, Danielle N  
Description: Student may contact the instructor or department for information.

EPSY 5262 Intermediate Statistical Methods  
3 credit(s); prerequisite: EPSY 5261 or 5262 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); prerequisite: 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); prerequisite: Upper div student;  
Instructor: Cikanek, Korinne L  
Description: This course is designed to provide students with an introduction to the theory and practice of counseling. It is intended for non-majors who have little or no training in counseling but who may be considering a career in counseling or may need to use counseling skills in a professional capacity. This course begins with an exploration of the fundamental aspects of the helping profession, followed by the study of counseling theories and practice. Instructional methods will include lecture, small group work, discussion, videos, and the practice of basic counseling skills.  
Style: 40% Lecture, 20% Discussion. small group activities  
Grading: 40% reports/papers, 20% quizzes, 20% in-class presentation, 10% class participation, 10% other evaluation.  
small group work.

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: Student may contact the instructor or department for information.

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, 3 credit(s);  
Instructor: Shinde, Satomi Kimura  
Description: Student may contact the instructor or department for information.

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); prerequisite: Child development course, 5601 or equiv;  
Instructor: Fautsch-Partridge, Terri  
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: Wolff, Jason James
Description: Student may contact the instructor or department for information.

EPSY 5614 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 5615 Advanced Academic Interventions
A-F only, 3 credit(s); prereq 5612;
Instructor: Seifert, PhD, Kathy
Description: Student may contact the instructor or department for information.

EPSY 5616 Behavior Analysis and Classroom Management
3 credit(s);
Instructor: Fautsch-Patridge, Terri
Description: Student may contact the instructor or department for information.

EPSY 5616 Behavior Analysis and Classroom Management
3 credit(s);
Instructor: Cherne, Jessica Lynn
Description: Student may contact the instructor or department for information.

EPSY 5616 Behavior Analysis and Classroom Management
3 credit(s);
Instructor: Moore, Tim
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 D/HH] or instr consent;
Instructor: McMaster, Kristen Lee
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 hearing learners in grades 1-12. This course addresses current issues and best practice strategies and technology used by teachers working with deaf and/or hard of hearing students with limited and emerging language as well as with students who have a developed first language. Students in this class will develop a final project which includes balanced literacy built into a theme for a given grad level. Each week one portion of this will be addressed and developed. The class is part lecture and part discussion focusing on current research and the use of two texts: (1) Vacca J.L., Vacca R.T., & Gove M.K. (2000) _Reading and Learning to Read_ (4th Edition) New York; Addison Wesley Long, Inc. This text has a web site which students will use on a weekly basis. (2) McNannally P.L., Rose S. & Quigley S. P. (1999) _Reading Practices with Deaf Learners_ Austin, TX: PRO-ED.
Style: 60% Lecture, 40% Discussion.
Grading: 48% reports/papers, 20% special projects, 22% quizzes, 10% other evaluation. response to reading and research

EPSY 5648 Communication Systems for Children with Disabilities
2 credit(s);
Instructor: Paulson, Anna Regas
Description: Student may contact the instructor or department for information.

EPSY 5649 Models of Instructional Programming With Deaf and Hard of Hearing Students
3 credit(s); prereq [5641, 5644] or instr consent;
Instructor: Landrud, Sharon Lynn
Description: Student may contact the instructor or department for information.

EPSY 5657 Interventions for Social and Emotional Disabilities
A-F only, 3 credit(s); prereq 5616, 5656;
Instructor: Kelley, Mary Beth
Description: Student may contact the instructor or department for information.

EPSY 5681 Education of Infants, Toddlers, and Preschool Children with Disabilities: Methods and Materials
A-F only, 3 credit(s); prereq 5625;
Instructor: Johnson, LeAnne Denise
Description: Student may contact the instructor or department for information.

EPSY 5702 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: Craig-Unkefer, Lesley
Description: Student may contact the instructor or department for information.

EPSY 5751 Student Teaching: Deaf and Hard of Hearing
1-6 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Paulson, Anna Regas
Description: Student may contact the instructor or department for information.

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 5753 Student Teaching: Early Childhood Special Education
S-N only, 1-6 credit(s), max credits 8, 8 repeats allowed; prereq instr consent, completion of all course requirements for license in ECSE;
Instructor: McConnell, Scott Rushton
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.
for information.

EPSY 5756 Student Teaching: Developmental Disabilities, Moderate/Severe
A-F only, 1-6 credit(s), max credits 6; prerequisite Completion of all licensure coursework, instr consent; Instructor: Seifert Ph.D., Kathy Description: Student may contact the instructor or department for information.

EPSY 5849 Observation and Assessment of the Preschool Child
3 credit(s), max credits 4, 1 repeat allowed; Instructor: Buerkle, Karla Description: Student may contact the instructor or department for information.

EPSY 5849 Observation and Assessment of the Preschool Child
3 credit(s), max credits 4, 1 repeat allowed; Instructor: Davis, Shanna D Description: Student may contact the instructor or department for information.

EPSY 5852 Prevention and Early Intervention
3 credit(s); Instructor: Burns, Matthew K Description: Student may contact the instructor or department for information.

EPSY 8117 Writing Empirical Paper and Research/Grant Proposals in Education and Psychology
3 credit(s); prerequisite instructor consent; Instructor: van den Broek, Paul Willem Description: Student may contact the instructor or department for information.

EPSY 8132 Personality Development and Socialization
3 credit(s); prerequisite 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); prerequisite [5216, admitted to doctoral program in psych foundations] or instructor consent; Instructor: Pellegrini, Anthony D Description: Student may contact the instructor or department for information.

EPSY 8222 Advanced Measurement: Theory and Application
4 credit(s); prerequisite [5221 or Psy 5862 or equiv], [8261 or 8262 or equiv]; Credit will not be granted if credit has been received for: PSY 5865; Instructor: Weiss, David J Description: Student may contact the instructor or department for information.

EPSY 8247 Advanced Interviewing and NVIVO
3 credit(s); prerequisite 5247 or qualitative course or instructor consent; Instructor: Lawrenz, Frances P Description: Student may contact the instructor or department for information.

EPSY 8261 Statistical Methods I: Probability and Inference
3 credit(s); prerequisite 3264 or 5261 or equiv; Instructor: Zielfer 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); prerequisite [8260, 8261] or equiv; Instructor: delMas, Robert Claude Description: EPsy 8262 is the second course of the Ph.D. level statistics sequence in Educational Psychology. The course will cover a number of advanced statistical methods. Emphasis will be placed on viewing traditional statistical methods as special cases of multiple regression, which itself is a special case of the general linear model (GLM). There are four major topic sections in this course: Regression, ANOVA, ANCOVA, and Repeated Measures. It is assumed that the student has facility with high school-level algebra. It is also assumed that the student has taken EPsy 8261 or an equivalent covering the topics of descriptive statistics and graphs, basic sampling and hypothesis testing, two-group mean comparison, simple analysis of variance (ANOVA), multiple comparison procedures, and some bivariate regression and correlation. The topics of bivariate regression, correlation, and simple ANOVA will be reviewed. Students wishing a more thorough review of these topics should consult the appropriate chapters of the textbook (Howell, 2007). Style: 60% Lecture, 40% Demonstration. Examples of how to use statistical software to perform analyses are used throughout each class session. Conceptual understanding is also promoted through the use of statistical software and simulations. 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); prerequisite [8260, 8261] or equiv; Instructor: Zielfer PhD, Andrew S Description: Student may contact the instructor or department for information.

EPSY 8265 Factor Analysis
3 credit(s); prerequisite 8262 or instructor consent; Instructor: Davenport Jr., Ernest C Description: Student may contact the instructor or department for information.

EPSY 8266 Advanced Measurement: Theory and Application
3 credit(s); prerequisite [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); prerequisite 8262 or equiv; Instructor: Rodriguez, Michael C Description: Student may contact the instructor or department for information.

EPSY 8271 Statistics Education Research Seminar: Studies on Teaching and Learning Statistics
3 credit(s), max credits 9, 3 repeats allowed; Instructor: Garfield, Joan B Description: Student may contact the instructor or department for information.

EPSY 8272 Nonparametric Statistics in Education
3 credit(s); prerequisite [8261, 8262 or equiv], instructor consent; Instructor: Harwell, Michael R Description: Student may contact the instructor or department for information.

EPSY 8279 Special Topics: Seminar in Psychological Foundations: Equating
1 credit(s), max credits 15, 15 repeats allowed; prerequisite instructor consent;
Instructor: Rodriguez, Michael C.  
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; Credit will not be granted if credit has been received for: EDPA 8595;  
Instructor: Yeh, Stuart S  
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; Credit will not be granted if credit has been received for: EDPA 8596;  
Instructor: Johnson, David Richard  
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: Wahl, Kay Herting  
Description: Student may contact the instructor or department for information.

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: Hummel, Thomas J  
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: David, Rajakumar Manuel  
Description: Student may contact the instructor or department for information.

EPSY 8431 Master’s Research Seminar: CSPP  
A-F only, 4 credit(s); prereq 5261 or equiv, 5221 or equiv, EPsy 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 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: Contemporary Issues in Early Childhood Education  
3 credit(s), max credits 9, 9 repeats allowed;  
Instructor: McConnell, Scott Rushton  
Description: Student may contact the instructor or department for information.

EPSY 8600 Special Topics: Special Education Issues: Functional Analysis: Principles and Procedures  
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: Symons, Frank J  
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: Rose, Susan  
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: Tomlinson, Jerry
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; prerequisite Grad ed psy major with school psy subprog, concurrent enrollment 8815 or concurrent enrollment 8816;
Instructor: Tomlinson, Jerry
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; prerequisite [[8860, 8861, 5616] or equiv], Grad ed psy major with school psy subprog, or instr consent;
Instructor: Christ, Theodore J
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); prerequisite 8821;
Instructor: Canter, Andrea
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; prerequisite Grad ed psy major with school psy subprog;
Instructor: Lau, Matthew Y.
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; prerequisite Grad ed psy major with school psy subprog;
Instructor: Lau, Matthew Y.
Description: Student may contact the instructor or department for information.

 EPSY 8841 Practicum: Instruction and Supervision in School Psychology
A-F only, 2 credit(s), max credits 4; prerequisite Grad ed psy major with school psy subprog or instr consent;
Instructor: Christ, Theodore J
Description: Student may contact the instructor or department for information.

 EPSY 8842 Internship: School Psychological Services
S-N only, 1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite Grad ed psy major with school psy subprog, instr consent;
Instructor: Lau, Matthew Y.
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); prerequisite Ed psy PhD student;
Instructor: Samuels, S Jay
Description: Student may contact the instructor or department for information.

 EPSY 8801 Systemic Intervention and Consultation
A-F only, 3 credit(s);
Instructor: Tomlinson, Jerry
Description: Student may contact the instructor or department for information.

 EE 361 Introduction to Microcontrollers: Discussion
S-N only, 0 credit(s); prerequisite concurrent registration in 2361;
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

 EE 1001 Introduction to Electrical and Computer Engineering
S-N only, 1 credit(s); prerequisite lower div IT or dept consent;
Instructor: Imbertson, Paul Jay
Description: Student may contact the instructor or department for information.

 EE 1301 Introduction to Computing Systems
4 credit(s); prerequisite MATH 1271 or MATH 1371;
Instructor: Rennolet, Charles Leon
Description: Student may contact the instructor or department for information.

 EE 1301 Introduction to Computing Systems
4 credit(s); prerequisite MATH 1271 or MATH 1371;
Instructor: Rennolet, Charles Leon
Description: Student may contact the instructor or department for information.

 EE 2001 Introduction to Electronic and Electrical Circuits
1 credit(s); prerequisite Concurrent registration is required (or allowed) in Math 2243, 2373, 2573;
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

 EE 2002 Introductory Circuits and Electronics Laboratory
1 credit(s); prerequisite Concurrent registration is required (or allowed) in 2001;
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

 EE 2006 Introductory Circuits Laboratory
0.5 credit(s);
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

 EE 2011 Linear Systems and Circuits
3 credit(s); prerequisite 2001;
Instructor: Imbertson, Paul Jay
Description: Student may contact the instructor or department for information.

 EE 2301 Introduction to Digital System Design
4 credit(s); prerequisite Math [1272 or 1372 or 1572], concurrent registration in 0301;
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

 EE 3005 Fundamentals of Electrical Engineering
4 credit(s); prerequisite 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
1 credit(s); prerequisite 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
This information is accurate as of 9/15/2008 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.
3 credit(s); prerequisite [2011, IT] or department consent.
Instructor: Kieffer, John C
Description: Student may contact the instructor or department for information.

EE 3025 Statistical Methods in Electrical and Computer Engineering
3 credit(s); prerequisite [3015, IT] or instructor approval.
Instructor: Parhi, Keshab K.
Description: Student may contact the instructor or department for information.

EE 3041 Industrial Assignment I
A-F only, 2 credit(s); prerequisite [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
2 credit(s); prerequisite [2002, [3115 or Concurrent registration is required (or allowed) in 3115], IT] or department consent.
Instructor: Holle, James Edward
Description: Student may contact the instructor or department for information.

EE 3102 Circuits and Electronics Laboratory II
2 credit(s); prerequisite [3101 or IT or department consent], attendance first day of class.
Instructor: Higman, Ted King
Description: Experiments in circuits and electronics; team design project.

EE 3115 Analog and Digital Electronics
4 credit(s); prerequisite [3015 or Concurrent registration is required (or allowed) in 3015, IT] or department consent.
Instructor: Tran, Nang
Description: Student may contact the instructor or department for information.

EE 3161 Semiconductor Devices
3 credit(s); prerequisite Upper div IT, 2011, Phys 1302, Phys 2303 or Chem 1022.
Instructor: Talghader, Joseph John
Description: Elementary semiconductor physics; physical description of pn junction diodes, bipolar junction transistors, field-effect transistors.

EE 3601 Transmission Lines, Fields, and Waves
3 credit(s); prerequisite [2011, Math 2243 or Math 2373 or Math 2573], [Phys 1302 or Phys 1402], IT or department consent.
Instructor: Victora, Randall H
Description: Student may contact the instructor or department for information.

EE 4043W Industrial Assignment II
A-F only, 4 credit(s); prerequisite 3041; Meets CLE req of Writing Intensive.
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 4044 Industrial Assignment III
A-F only, 2 credit(s); prerequisite 4043W.
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 4111 Advanced Analog Electronics Design
4 credit(s); prerequisite 3015, 3115.
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 4233 State Space Control System Design
3 credit(s); prerequisite [3015, upper div IT] or instructor consent; no EE or CompE grad cr.
Instructor: Posbergh, Thomas Alfred
Description: Student may contact the instructor or department for information.

EE 4237 State Space Control Laboratory
1 credit(s); prerequisite 4233 or concurrent enrollment in 4233; no cr for [EE or CompE] grad students.
Instructor: Posbergh, Thomas Alfred
Description: Student may contact the instructor or department for information.

EE 4341 Microprocessor and Microcontroller System Design
4 credit(s); prerequisite 2301, 2361, 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
4 credit(s); prerequisite 2361 credit will not be granted if credit received for: 5361, CSci 5201.; Credit will not be granted if credit has been received for: CSCI 4203.
Instructor: Sobelman, Gerald Edward
Description: Student may contact the instructor or department for information.

EE 4389W Introduction to Empirical Inference and Soft Computing
3 credit(s); prerequisite [3025, ECE student] or 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 EE/CSci 6-111: 612-625-9597; cherkasa@ece.umn.edu Office Hours: Tue Thur - 11:15-12 and Thur 3-4 pm Lecture time and place Tue Thur, 9:45 to 11:00am, AmundH 156 Prerequisites EE 3025 for ECE students, or Stat 3022 for non-ECE majors. Working knowledge of concepts in probability theory (i.e., random variable, distribution, mean and st. deviation). Familiarity with computer programming using computer system of your choice for homework assignments. 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.) Course Description Advances in computer and database technology motivate the need for methods for estimating dependencies (models) from the historical data. Often the common goal (of modeling) is to estimate a model providing good generalization, i.e. good prediction performance for future data. Such methods have been developed in various fields such as statistics, machine learning, neural networks, data mining etc. These diverse methodologies comprise an emerging field known as Empirical Inference or Predictive Learning, introduced in this course. The course covers three inter-related parts: 1. Technical Part deals with fundamental concepts and principles important for learning (generalization) from data. These issues are addressed by the mathematical theory known as Statistical Learning Theory (aka VC-theory), introduced in this course. 2. Practical Part focuses on the application of these methods to realistic data sets, mainly in the context of regression and classification problems. 3. Empirical and Machine Learning focus on the identification of interesting models from available data. This requires a deep understanding of the properties of different models and their generalization ability. The latter is crucial for practical applications, especially in the presence of limited training data. Course Material Lecture notes + book chapters + selected papers (will be posted on the web page). This course is designed for students in computer science, electrical engineering, mathematics, statistics, and related fields who wish to learn about empirical inference and soft computing.
on constructive learning methods and applications. Representative learning methods include several statistical learning methods developed in machine learning, statistics and neural networks. These methods include Decision Trees, MultiLayer Perceptrons, Self-Organizing Maps, Support Vector Machines and Boosting. Various learning methods are illustrated via practical data mining applications, such as object recognition, financial engineering, genomics, signal denoising, text retrieval etc. 3. Philosophical Part explores the connection between mathematical principles established in Part 1, and the Philosophy of Science, which is concerned with general conditions for judging the validity (truthfulness) of inductive scientific theories. Similarly, the fundamental principles of inference from data (developed in Part 1) underlying practical data mining algorithms (in Part 2) will be also related to mechanisms of human learning and intelligence. Grading: 6 Homework assignments 50% 3 writing assignments 30% Midterm exam 20% There will be no final exam. All tests are open-book, open-notes

EE 4541 Digital Signal Processing
3 credit(s); prereq [3015, 3025] or instr consent;
Instructor: Ottesen, Hal
Description: Student may contact the instructor or department for information.

EE 4609 Digital Signal Integrity
3 credit(s); prereq 2011, Phys 1301, 1302, [sr EE or CompE major]; Credit will not be granted if credit has been received for: EE 5609;
Instructor: Sainati, Robert A
Description: Student may contact the instructor or department for information.

EE 4703 Electric Drives Laboratory
1 credit(s); prereq 4701 or Concurrent registration is required (or allowed) in 4701;
Instructor: Imbertson, Paul Jay
Description: Student may contact the instructor or department for information.

EE 4724 Power System Planning and Operation
3 credit(s); prereq 4721;
Instructor: Wollenberg, Bruce F
Description: Student may contact the instructor or department for information.

EE 4951W Senior Design Project
4 credit(s); prereq 3015, 3115, 3102, 3601, attendance first day of class; Meets CLE req of Writing Intensive;
Instructor: Studler, Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 4982V Senior Honors Project II
2 credit(s); prereq 4981; Meets CLE req of Writing Intensive;
Instructor: Tewfik, Ahmed Hossm
Description: Student may contact the instructor or department for information.

EE 5164 Semiconductor Properties and Devices II
3 credit(s); prereq [5163, IT grad student] or dept consent;
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 5173 Basic Microelectronics Laboratory
1 credit(s); prereq [[5171 or Concurrent registration is required (or allowed) in 5171], IT grad student] or dept consent;
Instructor: Oh, Sang-Hyun
Description: Student may contact the instructor or department for information.

EE 5235 Robust Control System Design
3 credit(s); prereq IT grad, 3015, 5231 or instr consent;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 5302 VLSI Design Automation II
3 credit(s); prereq [5301, IT grad student] or dept consent;
Instructor: Roychowdhury, Jaijeet
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 5505 Wireless Communication
3 credit(s); prereq [4501, IT grad student] or dept consent;
Instructor: Tewfik, Ahmed Hossm
5501 recommended;
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: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 5583 Error Control Coding
3 credit(s); prereq [3025, Math 2373] or equiv], [IT grad student or dept consent];
Instructor: Kinney, Larry L
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: Gopinath, Anand
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: Gopinath, Anand
Description: Student may contact the instructor or department for information.

EE 5621 Physical Optics
3 credit(s); prereq [3015, 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% mid exam, 40% final exam, 20% problem solving, 2 mid-term exam
160

Enumerate all the courses from the University of Minnesota Course Guide:

**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 5655 Magnetic Recording**

3 credit(s); prereq IT grad student or dept consent;
Instructor: Wang, Jianping
Description: Student may contact the instructor or department for information.

**EE 5705 Advanced Electric Drives**

3 credit(s); prereq [4701, IT grad student] or dept consent;
Instructor: Mohan, Ned
Description: Student may contact the instructor or department for information.

**EE 5725 Power Systems Engineering**

3 credit(s); prereq [4721, IT grad student] or dept consent;
Instructor: Wollenberg, Bruce F
Description: Student may contact the instructor or department for information.

**EE 5821 Biological System Modeling and Analysis**

3 credit(s); prereq IT grad student or life science grad student or dept consent;
Instructor: Holte, James Edward
Description: Student may contact the instructor or department for information.

**EE 5940 Special Topics in Electrical Engineering I**

1-4 credit(s), max credits 12, 3 repeats allowed;
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

**EE 5940 Special Topics in Electrical Engineering II**

3 credit(s), max credits 12, 3 repeats allowed;
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

**EE 5960 Special Topics in Electrical Engineering III**

1-4 credit(s), max credits 12, 3 repeats allowed;
Instructor: Ottesen, Hal
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: 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;
prereq Grad student, instr consent;
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;
prereq Grad student, instr consent;
Instructor: Rennole, 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;
prereq Grad student, instr consent;
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;
prereq Grad student, instr consent;
Instructor: Tewfik, Ahmed Hosam
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: Tewfik, Ahmed Hosam
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: Rennolet, 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;
prereq Grad student, instr consent;
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;
prereq Grad student, instr consent;
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;
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: 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;
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: 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: 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: Drayton, RF
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: Kinney, Larry L
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: Kiefer, 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: Holte, James Edward
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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: Victoria, 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: 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: 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: He, Bin  
Description: Student may contact the instructor or department for information.
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: Giannakis, Georgios B 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: Giannakis, Georgios B 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]; IG 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]; IG 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]; IG 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]; IG 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]; IG 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]; IG 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]; IG 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]; IG 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]; IG grad student or instr consent; Instructor: Wollenberg, 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]; IG grad student or instr consent; Instructor: Lawler, Thomas Alfred 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]; IG 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 [may be repeated for cr]; IG grad student or instr consent; Instructor: Cohen, Philip I 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]; IG grad student or instr consent; Instructor: Harjani, Ramesh 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]; IG grad student or instr consent; Instructor: Ruden, Paul 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]; IG 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]; IG grad student or instr consent; Instructor: Stadler, Bethanie J. Hills Description: Student may contact the instructor or department for information.
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: Higman, Ted King
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: 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 [may be repeated for cr]; IT grad student or instr consent;
Instructor: Lijia, David J
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: 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 [may be repeated for cr]; IT grad student or instr consent;
Instructor: Cherkassky, Vladimir 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: Campbell, Stephen A
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
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Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
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Instructor: Bazargan, Kia
Description: Student may contact the instructor or department for information.

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

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Instructor: Roychowdhury, Jaijeet
Description: Student may contact the instructor or department for information.

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EE 8940 Special Investigations
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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 [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: Drayton, RF
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: 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 [may be repeated for cr]; IT grad student or instr consent;
Instructor: higman, ted king
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EE 8940 Special Investigations
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EE 8940 Special Investigations
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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: Amin,Massoud
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: Luo,Zhi-Quan
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: He,Bin
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: 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: 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: 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: Sapiro,Guillermo R
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
3 credit(s), max credits 12, 4 repeats allowed; prereq Cr ar [may be repeated for cr]; instr consent; Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
3 credit(s), max credits 12, 4 repeats allowed; prereq Cr ar [may be repeated for cr]; instr consent; Instructor: Wang,Jianping
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
3 credit(s), max credits 12, 4 repeats allowed; prereq Cr ar [may be repeated for cr]; instr consent; Instructor: Ottesen,Hal
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
3 credit(s), max credits 12, 4 repeats allowed; prereq Cr ar [may be repeated for cr]; instr consent; Instructor: Mounes-Toussi,Farnaz
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
3 credit(s), max credits 12, 4 repeats allowed; prereq Cr ar [may be repeated for cr]; instr consent; Instructor: Jindal,Nihar
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
3 credit(s), max credits 12, 4 repeats allowed; prereq Cr ar [may be repeated for cr]; instr consent; Instructor: Rennolet,Charles Leon
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
3 credit(s), max credits 12, 4 repeats allowed; prereq Cr ar [may be repeated for cr]; instr consent; Instructor: Amin,Massoud
Description: Student may contact the instructor or department for information.
EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Sapiro,Guillermo 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: Sapatnekar,Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Moon,Jaekyun
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Wollenberg,Bruce F
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Posbergh,Thomas Alfred
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
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Instructor: Parihi,Keshab K.
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Harjani,ramesh
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
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Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
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Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Georgiou,Tryphon T
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
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Description: Student may contact the instructor or department for information.

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

EE 8965 Plan C Project I
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Description: Student may contact the instructor or department for information.

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<thead>
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<th>Instructor(s)</th>
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<tbody>
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<td>Yoon, Euisik</td>
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<td>Oh, Sang-Hyun</td>
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<td>3 credit(s); prereq Grad EE major; Description: Student may contact the instructor or department for information.</td>
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<td>EE 8967 Plan C Project II</td>
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<td>Imbertson, Paul Jay</td>
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<td>Mounes-Toussi, Farnaz</td>
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EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Sapiro, 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: 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: 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: Georgiou, Tryphon T
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1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Kinney, Larry L
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1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Kieffer,John C
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1-3 credit(s), max credits 3, 1 repeat allowed; prereq EE grad student;
Instructor: Robbins,William P
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Instructor: Sobelman,Gerald Edward
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Instructor: Leger,James Robert
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Instructor: Drayton,RF
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Instructor: Victora,Randall H
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Instructor: Giannakis,Georgios B
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Instructor: Kiehl,Richard
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Instructor: Bazargan,Kia
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Instructor: Roychowdhury,Jaijeet
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Description: Student may contact the instructor or department for information.
Emergency Health Services
20 Classroom Office Building

EHS 3112 First Responder for Coaches and Athletic Trainers  
A-F only, 3 credit(s); prereq Jr or sr;  
Instructor: Mc Neil MA,Mary Ann  
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.  

EHS 3312 Emergency Medical Technician  
A-F only, 6 credit(s); prereq Jr or sr;  
Instructor: Mc Neil MA,Mary Ann  
Description: Knowledge and practical experience to make competent decisions regarding treatment of medical and trauma patients at the basic life support level, as set forth by the Department of Transportation. Includes: patient assessment; airway management; AHA basic life support for health professionals; trauma management; medical emergencies management; mass casualty and bio-terrorism response, critical thinking and decision making. Successful completion of this course and the National Registry Examination lead to certification as an Emergency Medical Technician at the Basic level.  
Style: 30% Lecture, 5% Film/Video, 50% Small Group Activities, 10% Guest Speakers, 5% Service Learning. Class consists of 1/2 didactic presentations, 1/2 small group skills/ scenario practice.  
Grading: 15% mid exam, 15% final exam, 20% quizzes, 50% class participation. Students will be accessed on their class participation and clinical skills performance. This makes up 50% of the grade; additional 50% is a combination of all the quizzes and exams. >3 absences will result in termination from course.  
Exam Format: Written test and clinical skills performance.

University of Minnesota - Course Guide for Twin Cities Campus Spring 2008

Endodontics  
15-209 MoosT

ENDO 5390 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  
S-N only, 1 credit(s); prereq 5312;  
Instructor: Bowles,Walter Ray  
Description: Student may contact the instructor or department for information.

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: Edmunds,Robert Sprague  
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 8311 Literature Review  
A-F only, 2 credit(s); prereq 8310;
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>ESL 181</td>
<td>Beginning Integrated English</td>
<td>Liptak, Christine Michelle</td>
<td>Student may contact the instructor or department for information.</td>
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<td>ESL 631</td>
<td>Advanced Oral Skills</td>
<td>Arnold, Arlys L</td>
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<td>ESL 701</td>
<td>Topics in American Culture</td>
<td>Marrin, Annie</td>
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<tr>
<td>ESL 731</td>
<td>High Advanced Oral Skills</td>
<td>Marrin, Annie</td>
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<td>ESL 781</td>
<td>Academic Writing</td>
<td>Ruesch, Alyssa Marie</td>
<td>Student may contact the instructor or department for information.</td>
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<td>ESL 3101</td>
<td>Advanced English Grammar</td>
<td>Bramante, Paula</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>ESL 3102</td>
<td>English Grammar for Academic Purposes</td>
<td>Nelson, Eric Stuart</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>ENGL 1181W</td>
<td>Introduction to Shakespeare</td>
<td>Kim, Yoo-suk</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

Description: This course will help you increase your accuracy and range in English grammar. Topics that are especially relevant to academic writing, such as conciseness and smooth connections between sentences, are emphasized. Activities and regular assignments will improve your ability to analyze grammar, including your own mistakes, and to use grammar more effectively. Expect two hours preparation time for each hour of class.

Description: In this course you will read essays and articles on a variety of topics from a variety of sources. You will improve your ability to identify main ideas and details, analyze and critique support, and respond with your own ideas in writing and discussion. In addition to informal writing (such as journal entries), you will write two major papers: an argumentative essay and a field research paper. In the field research project, you will investigate a topic of your choice, conduct field research (e.g. through a survey or interviews), analyze your findings, and present them in a report. As you design your project, analyze your findings, and draft and revise your paper, you will practice a variety of skills that will help you in your academic work. Expect two hours preparation time for each hour of class.

Description: In this course you will read essays and articles on English: Literature. Expect two hours preparation time for each hour of class.

This information is accurate as of 9/15/2008 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: Scheil, Katherine West

DESCRIPTION: Shakespeare is one of the most influential and complex writers in the English language, and has been both revered and reinterpreted by every generation since the Renaissance. As Shakespeare's contemporary Ben Jonson remarked, "Shakespeare is not of an age but for all time." This course explores some of the richness and variety of Shakespeare's art through study of representative plays. We will examine such topics as Elizabethan playhouses and acting companies, Renaissance theatre and culture, gender and sexuality in Shakespeare's plays, and performance history. Through class lectures, discussions and written work, students will become familiar with the techniques used by Shakespeare to shape the responses of his audience to the theatrical experience, as well as the various interpretations of Shakespeare by later generations.

ENGL 1701 Modern Fiction
4 credit(s); Meets CLE req of Literature Core;
Instructor: Weinsheimer, Joel Clyde

DESCRIPTION: English 1701 provides an introduction to short stories and novels written after 1850, both in English and in translation from other languages. We will read works by John Cheever, Ernest Hemingway, Franz Kafka, William Faulkner, Albert Camus, and John Steinbeck. We will also examine some of the richness and variety of Victorian literature, including works by Charles Dickens, Anthony Trollope, and Oscar Wilde.

Grading: 75% reports/papers, 25% quizzes.

ENGL 3001V Honors: 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 has been received for: ENGL 3001V; Meets CLE req of Writing Intensive;
Instructor: Ismail, Qadri M

DESCRIPTION: This course examines the techniques and methods of textual analysis, focusing on the study of written texts. Students will analyze a variety of literary works, with an emphasis on the relationship between form and content. Through class lectures, discussions and written work, students will become familiar with the techniques used by literary scholars to interpret and understand written texts.

Grading: 75% reports/papers, 25% quizzes.

ENGL 3005V Honors: Survey of American Literatures and Cultures I
4 credit(s); prereq CLA honors; Meets CLE req of Cultural Diversity Theme; Meets CLE req of Literature Core; Meets CLE req of Writing Intensive;
Instructor: Ross Jr., Donald

DESCRIPTION: This course examines the development of American literature from the 16th to 19th centuries. We will focus on understanding some of the key concepts critical to the study of literature, including the role of the individual writer, the influence of social and cultural context, and the relationship between language and identity. Through close reading and discussion of a variety of texts, students will develop critical thinking skills and a deeper appreciation for the richness and diversity of American literature.

Grading: 75% reports/papers, 25% quizzes.
the course attend to the interactions of peoples, the changing roles of women, the initial tension between English and Native Americans, and the crisis concerning slavery in the years before the Civil War. Lectures and discussion introduce students to topics such as how writers created and published their works, literary techniques, and historical and social contexts of writers and readers (including the students). Questions of literary form and content inevitably touch on other related fields of knowledge/history, art, music, philosophy, and psychology. The course also discusses literary conventions and taste, how these change over time, and how traditions are built upon and undermined through innovation and experiment. Students will see how the works pose challenging questions about gender and sexuality, social and economic class, cultural coherence and diversity, and the nature of private and public morality. The course also introduces relevant theoretical, scholarly, and critical approaches that can help students understand the richness of the readings. Especially important is for students to see how a single text can generate multiple responses and how those responses are often the result of one's critical perspective.

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: Kim, Chang-Hee
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: Curtright, Lauren
Description: A common refrain in recent public discourse across the political spectrum is that the United States has become or is on its way to becoming ?unrecognizable.? Whether defined as the guarantee of rights to U.S. citizens or the make-up of the population living and working in the U.S., the image of America is represented as undergoing unprecedented and perhaps irreversible change. For example, country singer Merle Haggard laments that the George W. Bush administration is ?changing the Constitution out of fear? and America is ?slipping away.? In her latest book, The End of America, feminist Naomi Wolf argues that the on-going dismantling of democracy in the U.S. resembles the ?ten classic pressures [?] used in various times and places in the past to close down pluralistic societies,? including in Nazi Germany, Chile under Pinochet, and the People?¢s Republic of China in the late 1980s. Until now, Wolf says, the ?ten steps? to totalitarian rule ?have never been put in place before in this way in this nation.? Meanwhile, proponents of curtailing immigration to the U.S. say that the ?invasion? by people from other countries has made the U.S. ?unrecognizable? to its citizenry. Conversely, author, and television and radio host Tavis Smiley argues that national discussions on the issues that Americans face do not address the reality and interests of ?the most multicultural, multiracial, multiethnic America ever.? From all of these points of view, at least two Americas are envisioned: an America that once was and a new and future America?and the present time is seen as a pivotal moment between them. From where does this image of the U.S. come? Is this rhetoric new, or does it fit on a continuum with past descriptions of America and American-ness? In this survey course, we will consider the ways in which the idea of America developed during the Colonial period (1492-1776) and national period before the Civil War, as gleaned from literature. We will study writings produced from diverse situations and perspectives and in particular economic and political contexts.

The readings are of various genres, including philosophical essays, political and anthropological tracts, sermons, speeches, journal entries, letters, fiction, verse, captivity and slave narratives, and transcriptions of oral literature. In addition to studying the features and provenances of these genres, we will discuss the interrelations and connections of genre and identity, such as of religion, race, gender, and class. Students are expected to read texts closely and actively participate in class discussions.

Requirements include quizzes on the readings, three short analytical response papers, one longer research paper, and a brief presentation on the research paper. While the readings and discussions should widen our senses of America, we will also work to discern and analyze patterns in and among the texts studied and the ways in which these texts cohere as a national body of literature.

Style: 25% Lecture, 70% Discussion, 5% Student Presentation.
Grading: 80% reports/papers, 10% quizzes, 10% class participation.

ENGL 3006W Survey of American Literatures and Cultures II 4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Knight, Jessica Lynn
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II 4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Kamerbeek, Chris
Description: Student may contact the instructor or department for information.

ENGL 3006W Survey of American Literatures and Cultures II 4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Mrozowski, Daniel Justin
Description: Student may contact the instructor or department for information.

ENGL 3029W Professional Writing 3 credit(s); Meets CLE req of Writing Intensive; Instructor: Texter, Douglas W
Description: Student may contact the instructor or department for information.

ENGL 3090 General Topics: Medieval Stories 3 credit(s), max credits 12, 3 repeats allowed; Instructor: Noakes, Susan J
Description: Medieval Stories Reading/discussion of major forms of medieval tale written in France (comic, bawdy, moralizing, fantasy, historical) in English translation. Explores their relationship to development of French and English (Anglo-Norman) culture, especially urbanization, class relations, marriage, role of Church. Books/selections from: The Arabian Nights (one of the source texts for all medieval European stories); Marie de France, Lais (stories of knights, fairies, etc., written for the Anglo-Norman court); a collection of “fabliaux,” comic verse tales set in market cities or towns, very influential for Chaucer; selections from miraculous stories about saints; and perhaps selections from The Fifteen Joys of Marriage, which satirizes marital relations, and/or The Hundred New Tales, written in fifteenth-century Burgundy, as a kind of French response to Boccaccio’s Decameron. There will be essay exams, presentations by groups of students working on a tale or group of tales together, and lots of discussion.

ENGL 3133H Honors: Stuart England: 17th-Century Literature and Culture 3 credit(s); prereq CLA honors; Instructor: Matar, Nabi I
Description: 

ENGL 3134 Milton and the Century of Revolution
A-F only, 3 credit(s);
Instructor: Watkins, John
Description: Nothing captured the spirit of the European Renaissance more dramatically than the effort of writers from Ferrara to Munster to write vernacular epics in the tradition of Virgil's Aeneid. Yet no effort more effectively exposed the futility of fashioning modern societies on recollections of antiquity. As early modern writers turned to the classical past, they discovered alien attitudes toward sovereignty, religion, gender, and sexuality that resisted assimilation to contemporary beliefs. This was particularly true for the two writers we will examine in this course, Torquato Tasso, the supreme Italian exemplar of the Counter-Reformation in all its baroque splendor, and John Milton, the perfect embodiment of the English Puritan Revolution in all its austerity. As we examine their appropriations of Virgilian models from opposite sides of the Protestant and Catholic divide, we will address topics ranging from sexual and spiritual discipline to the emergence of the early modern state. Readings will center on Virgil's Aeneid, Tasso's "La Gerusalemme Liberata" ("The Liberation of Jerusalem"), and Milton's "Paradise Lost." Those taking the course for 5-level Italian credit will read "La Gerusalemme Liberata" and selections from "Discorsi dall'arte poetica e del poema eroico" in the original and submit one 15-page paper written in Italian. All course meetings will be conducted in English.
Style: 40% Lecture, 60% Discussion.
Grading: 90% reports/papers, 10% class participation.

ENGL 3212 American Poetry from 1900
3 credit(s);
Instructor: Nowak, Mark A
Description: This course will examine various formations within cultural politics and contemporary poetics from 1917 to the present. Beginning in the mining and global extractive industries between the 1910s and the 1930s, we will analyze poetry by Langston Hughes and Muriel Rukeyser with particular attention to mobility/mobilization, technology, and transnationalism. Our examination of the revolutionary 1960s and 1970s will focus on both canonized (Gwendolyn Brooks) and student-movement-based (SDS/Weather Underground) poetics. This will be followed by a detailed examination of neoliberalism as both "creative destruction" (David Harvey) and "mobile technology" (Aiwha Ong), with particular attention to the poetry and poetics of its manifestations in the NAFTA and post-NAFTA eras; given the geographic range of the NAFTA agreement, our analyses of ?American? poetry will address the border- and genre-crossing engagements of poetry in cultural-political-poetic works from Mexico (Subcomandante Marcos/EZLN, Heriberto Yépez), the United States (Claudia Rankine, Mark Nowak), and Canada (Jeff Derksen & the Kootenay School of Writing, Dioneen Brand).

ENGL 3221 American Novel to 1900
3 credit(s);
Instructor: Griffin, Edward M
Description: Student may contact the instructor or department for information.

ENGL 3330 Gay, Lesbian, Bisexual, and Transgendered Literature: Queer Ways of Knowing
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Helt, Ph.D., Brenda S
Description: GLBT Literature: Queer Ways of Knowing. In this course we will examine British and American works from the late nineteenth century to the present, focusing especially on important socio-historical moments in queer literary history: the late Victorian socialist and utopian experiments, the trials of Oscar Wilde in 1895, the burst of best-selling feminist modernist works featuring various queer themes and characters in interwar London, the obscurity trial of Radclyffe Hall's The Well of Loneliness in 1928, the post-WWII backlash against "homosexuals," Stonewall (1969) and the resulting early Gay Pride movement, the Civil Rights movement more generally, the AIDS epidemic, and the rise of poststructuralism and queer theory/politics. Additionally, we will pay attention to issues of literary innovation, asking how and why queer texts have long been considered among the most avant-garde of literary texts. How has queer literature impacted the overall development of literary cultures? What questions and challenges has it raised? What epistemologies are visible in it? What could be published (or produced on the stage) when, where, and why? What literary tropes and genres have been created specifically for the purpose of exploring queer issues? We will also seek to problematize contemporary theories of literary production that make simplistic and sometimes anachronistic distinctions between heterosexual and queer literature. By doing so, we may find the queer in the most seemingly normative of literary spaces and the heteronormative in texts purporting to radical queerness. We shall therefore prepare to be astounded. Probable course texts: Rita Mae Brownie, Rubyfruit Jungle. Leslie Feinberg, Stone Butch Blues. E.M. Forster, Maurice. Radclyffe Hall, The Well of Loneliness. Rosamond Lehmann, Dusty Answer. Christopher Isherwood, The World in the Evening. Tony Kushner, Angels in America. Cherrie Moraga, Heroes and Saints & Other Plays. Tom Spanbauer, The Man Who Fell in Love with the Moon. Oscar Wilde, The Picture of Dorian Gray. Jeannette Winterson, The.Powerbook. A course packet containing shorter works by Gertrude Stein, Elinor Glyn, James Baldwin, Edward Carpenter, Alice Walker, Mary MacLane, Walt Whitman, Vikram Seth, Walter Pater, Virginia Woolf, Alice Dunbar-Nelson, Ernest Hemingway, Allen Ginsberg, Henry James, and Audre Lord.

ENGL 3506 Learning Internships II
A-F only, 4 credit(s); prereq 3505 in preceding semester or instr consent;
Instructor: Daigre, Eric Stephen
Description: Student may contact the instructor or department for information.

ENGL 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.

ENGL 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: McIvor, Jeremy
Description: Students may contact the instructor or department for information.

ENGL 3601 Analysis of the English Language
4 credit(s);
Instructor: Stevens, James M
Description: Students may contact the instructor or department for information.

ENGL 3741 Literacy and American Cultural Diversity
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;
ENGL 3741 Literacy and American Cultural Diversity
4 credit(s); meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;
Instructor: Daigre, Eric Stephen
Description: Student may contact the instructor or department for information.

ENGL 3741 Literacy and American Cultural Diversity
4 credit(s); 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; 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://english.cla.umn.edu/ugrad/degseniorthesis.php">http://english.cla.umn.edu/ugrad/degseniorthesis.php</a>. Using a contract form available at the URL or in the English 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 CLA Honors advisery, consult with the English Honors advisor, 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: One-to-one discussions with faculty advisor in addition to the workshop. Grade: 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: Pacific Literacy & Cultural Diversity
A-F only, 4 credit(s); prerequisite: English major, [jr or sr], major adviser approval, dept consent; Meets CLE req of Writing Intensive;
Instructor: Winduo, Steven Edmund
Description: Student may contact the instructor or department for information.

ENGL 3960W Senior Seminar: The End of Fordism in Minnesota
A-F only, 4 credit(s); prerequisite: English major, [jr or sr], major adviser approval, dept consent; Meets CLE req of Writing Intensive;
Instructor: Nowak, Mark A
Description: This St. Paul Ford Assembly plant is scheduled to close during the spring 2008 semester. For the first time in nearly 100 years, Minnesota will be without a Ford plant. In this class, students will meet with Ford autoworkers and UAW (United Autoworkers) leaders to discuss the future of Minnesota (and many other states) without auto manufacturing jobs. We will read classic and contemporary fiction (Upton Sinclair, Lolita Hernandez), poetry (such as the anthology Abandon Automobile: Detroit City Poetry), and drama (Athol Fugard's Sizwe Bansi is Dead) as well as other writings in labor history, cultural studies, and public art-all toward developing a deeper understanding of the post-NAFTA, neoliberal era. We will also examine transnational approaches to labor organizing and writing (and filming) the histories of working people, with particular attention to the factory occupation movement in Argentina and the work of the South African autoworkers union, NUMSA (National Union of Metalworkers of South Africa). Finally, we will discuss labor documentaries with the University of Minnesota's Labor Education Services (LES) and produce our own documentaries as well as a public event on the last days of Ford in Minnesota.

ENGL 3960W Senior Seminar: Gothic Novel
A-F only, 4 credit(s); prerequisite: English major, [jr or sr], major adviser approval, dept consent; Meets CLE req of Writing Intensive;
Instructor: Luke, David B
Description: Student may contact the instructor or department for information.

ENGL 3960W Senior Seminar: Consumer Culture
A-F only, 4 credit(s); prerequisite: English major, [jr or sr], major adviser approval, dept consent; Meets CLE req of Writing Intensive;
Instructor: Messer-Davidow, Ellen
Description: Someone once remarked that the diverse peoples of the United States are held together by a gummy veneer of popular culture. This class will look at the promises and problems of globalization. Course requirements include careful preparation of assignments, participation in class discussions, a term paper (or senior majors paper), and a class trip to the mega-mall (to be arranged on a weekend).

ENGL 3960W Senior Seminar: Multicultural Fiction and Poetry
A-F only, 4 credit(s); prerequisite: English major, [jr or sr], major adviser approval, dept consent; Meets CLE req of Writing Intensive;
Instructor: Gonzalez, Ramon
Description: We will read and discuss four novels and four books of poetry by Native American, African American, Latino, and Asian American writers. Authors include Rudolfo Anaya, Linda Hogan, Toni Morrison, Yuko Taniguchi, Li Young Lee, Diana Garcia, James Welch, and Harryette Mullen.

ENGL 3960W Senior Seminar: Women and Renaissance Drama
A-F only, 4 credit(s); prerequisite: English major, [jr or sr], major adviser approval, dept consent; Meets CLE req of Writing Intensive;
Instructor: Scheil, Katherine West
Description: This class will examine the place of women in and around the drama of the English Renaissance: as writers, performers, and subjects. We will investigate the relationship between literary representations of women and the complex social structures of the period. Historical sources, including religious documents, medical histories, and conduct books will provide a foundation for understanding how early modern society...
conceptualized women and their acceptable role(s). In addition to a number of primary sources from the period, we will examine plays by Renaissance women including Elizabeth Cary, Mary Wroth, Lady Jane Cavendish, and Lady Elizabeth Brackley, and by male writers such as Shakespeare, Ben Jonson, Thomas Dekker, Thomas Middleton, and the anonymous author of the play Arden of Faversham, based on the true story of murderer Alice Arden. Students will pursue an independent research project based on a topic chosen in consultation with the professor.

**Style:** 20% Lecture, 80% Discussion.

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**ENGL 3960W Senior Seminar: Reading & Rereading the Bible**

*A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent; Meets CLE req of Writing Intensive; Instructor: Kissileff PhD, Beth P. Description: Student may contact the instructor or department for information.*

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**ENGL 4041 Old Age in Film and Literature**

*A-F only, 3 credit(s); Instructor: Luke, David B Description: The course is primarily a thematic study of how and why aging shapes the central focus of a selection of modern verbal and visual texts. Readings will consist of Hemingway’s THE OLD MAN AND THE SEA, Wallace Stegner, THE SPECTATOR BIRD, Margaret Laurence, THE STONE ANGEL, Gabriel Garcia Marquez, LOVE IN THE TIME OF CHOLERA, Tracy Kidder, OLD FRIENDS (a prize-winning non-fiction account of life in a nursing home), and Betty Friedan, THE FOUNTAIN OF AGE (a popular study of aging by the renowned feminist author). Films will include ON GOLDEN POND, TRAVELING NORTH, THE WHALES OF AUGUST, STRANGERS IN GOOD COMPANY, and a Smithsonian documentary. A CERTAIN AGE. The course will explore the subject of aging from philosophical, sociological, and psychological perspectives, and will examine how contemporary narratives both presumes and subvert stereotypes of aging. In addition to an increased appreciation of the varied representations of aging in modern culture, one goal of the course will be an enhanced understanding of how the experience of old age has as much to do with culture as with biology, and yet how it also has as much to do with the sometimes liberating possibilities of personal experience as with the often coercive expectations of culture. In the words of one aged persona, we will hopefully learn about some of the ways in which old people "can be destroyed but not defeated." Style: 75% Lecture, 25% Discussion. Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% class participation, 10% other evaluation. attendance Exam Format: analysis of passages and/or essays

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**ENGL 4311 Asian American Literature and Drama**

*A-F only, 3 credit(s); Instructor: Lee, Josephine D Description: This course focuses on the literary and theatrical contributions of American artists of Asian descent. Through these novels, memoirs, poetry, stories, and plays, we can understand the particular connections between literary form, expression, and production and the social formations of race, ethnicity, nationalism, class, gender, and sexuality. Asian Americans come from a diverse range of national and cultural backgrounds; likewise their literature and drama presents many different perspectives and experiences. This course will not attempt a survey of these works; rather our readings and discussions will reflect particular preoccupations that regularly surface in these works. These include migration (and its accompanying states of disorientation and acts of reinvention), racism and stereotypes, the ‘road trip,’ and redefining home. We’ll pay special attention to Asian American experiences in Minnesota and other parts of the Midwest. This course satisfies the core requirement for the Asian American Studies minor as well as elective requirements for the English major and minor.

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**ENGL 4722 Alphabet to Internet: History of Writing**

*Technologies 4 credit(s); prereq credit will not be granted if credit received for: 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, Facebook, and the most recent issue of Wired magazine. Style: 40% Lecture, 60% Discussion. Grading: 85% reports/papers, 10% in-class presentation, 15% class participation, 10% other evaluation. "Other Evaluation" is 10% for online comments on readings.*

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**ENGL 5002 Introduction to Literary and Cultural Theory**

*3 credit(s); prereq grad or instr consent; Instructor: Ellenbein, Andrew Description: Student may contact the instructor or department for information.*

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**ENGL 5090 Readings in Special Subjects: American Poetry from 1900**

*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 5100; Instructor: Nowak, Mark A Description: This course will examine various formations within cultural politics and contemporary poetics from 1917 to the present. Beginning in the mining and global extractive industries between the 1910s and the 1930s, we will analyze poetry by Langston Hughes and Muriel Rukcyew with particular attention to mobility/mobilization, technology, and transnationalism. Our examination of the revolutionary 1960s and 1970s will focus on both canonized (Gwendolyn Brooks) and student-movement-based (SDS/Weather Underground) poets. This will be followed by a detailed examination of neoliberalism as both “creative destruction” (David Harvey) and “mobile technology” (Ahma Ong), with particular attention to the poetry and poetics of its manifestations in the NAFTA and post-NAFTA eras; given the geographic range of the NAFTA agreement, our analyses of “American” poetry will address the border- and genre-crossing engagements of poetry in cultural-political-poetic works from Mexico (Subcomandante Marcos/ELN, Heriberto Yépez), the United States (Claudia Rankine, Mark Nowak), and Canada (Jeff Derksen & the Kootenay School of Writing, Dione Brand).*
ENGL 5712 Advanced Editing
4 credit(s); prereq 5711 credit will not be granted if credit received for: 5402;
Instructor: Tortorolo, Michael
Description: A disgruntled filmmaker once said, "Ninety-eight percent of the jobs in the world suck, and someone else always hogs the other two percent." To put that cheery adage another way, how can a hard-working student translate her affection for Beckett and Byatt into a career working with words and ideas? This hands-on seminar will chase an answer to that riddle along two tracks. First, the class will host more than a half-dozen professionals from the fields of book editing, author representation, journalism, market research, conservative blogging, and first amendment law. These experienced guests will bring real, raw texts from their working lives--articles, features, author pitches, and manuscripts--for the class to slice and dice. Second, using present-day print, the seminar will meditate on the practice and philosophy of editing. Did lousy editing help lead the U.S. into Iraq? Why do writers perpetrate fraud, and how can we catch them? If God didn't edit the Bible, who did? Finally, we'll explore the protocol of editing and the bastard craft of creative collaboration. Why did the dean of rock critics once edit in the nude? And why is it so hard to play well with others (see previous sentence)? These questions and more considered.

ENGL 8090 Seminar in Special Subjects: Modernism: A Primer
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Scandura, Jani
Description: Student may contact the instructor or department for information.

ENGL 8090 Seminar in Special Subjects: Theorizing the African Diaspora
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Wright, Michelle M
Description: African Diaspora or Black Diaspora? Blackness as a construct ultimately bereft of an essential meaning, or an undefinable yet ubiquitous quality that links all peoples of Africa and African descent? In this course we will be looking at the contemporary theoretical debates shaping the definition of this relatively new subfield and looking at literary interpretations of the Black Diaspora and Black identity. We will also be analyzing and discussing the theoretical and thematic placement of African Diaspora studies within the larger contexts of literary, cultural, gender and queer studies: what impact the former can and should make on the latters' formulations of race, class, gender, and sexuality--and vice versa. Authors will include but will not be limited to: Stuart Hall, Andrea Levy, Paul Gilroy, Maryse Conde, Brent Edwards, Mamadou Diauf, Tricia Keaton, Barnor Hesse, Christine Chivallon, May Ayim, and Tina Campt.
Style: 30% Lecture, 50% Discussion, 20% Student Presentation.
Grading: 80% reports/papers, 10% in-class presentation, 10% class participation.

ENGL 8170 Seminar in 19th-Century British Literature and Culture: Constructing English in India and Great Britain
3 credit(s), max credits 12, 4 repeats allowed; prereq Grad major or instr consent;
Instructor: Hancher, Michael
Description: Although English as a discipline has deep roots, it was not until the nineteenth century that it became a conspicuous part of the academic landscape. This seminar will focus on several key moments in the construction of the canon of English literary studies and the associated spread of English as a global language. Some of these moments connect England and India through the agency of Thomas Babington Macaulay and his associates, especially Charles E. Trevelyan, David Lester Richardson, and Francis Turner Palgrave. Macaulay and Trevelyan prompted controversy not only by privileging English in India but also by establishing competitive meritocracy at home, a project that indirectly spurred English studies, including composition. The work of the Philological Society to build the Oxford English Dictionary enlarged the "imagined community" of English speakers and readers, as did the rise of Anglo-Indian authorship. The representation of India in English literature and art is a related topic. The extraordinary resources of the Ames Library of South Asia, University of Minnesota Libraries, provide a rich context for study.

ENGL 8200 Seminar in American Literature: Ecocriticism & American Literature
3 credit(s), max credits 12, 4 repeats allowed; prereq Grad major or instr consent;
Instructor: Philippon, Daniel J
Description: Although the term "ecocriticism" most often refers to literary criticism concerned with the relationship between literature and the environment, here we will be defining it broadly as "a form of critical inquiry that asks how scholars and critics of literature, language, and communication can contribute to the tasks of protecting biological diversity, minimizing human health risks, and using resources sustainably." This means not only that we will be exploring the interdisciplinary landscape between literary criticism, rhetorical criticism, and communication studies but also that what "ecocriticism" is will remain an open question throughout the course. Among the questions we will be asking are: Is ecocriticism a theoretical orientation, critical method, or interdisciplinary approach? What are its theoretical foundations and foundational texts? What other critical methods has it adopted and/or modified? How has ecocriticism engaged, and been engaged by, various discourse communities? What success has it had at fulfilling its purpose? Students will read work by a variety of prominent ecocritics, explore some of the more trenchant criticisms leveled at them, and examine several case studies in the application of ecocriticism to American literature. Requirements include: attendance and participation, weekly reading responses, leading discussion, a literature review, and a final project on ecocritical theory and/or practice.

ENGL 8510 Studies in Criticism and Theory: Reading Foucault
3 credit(s), max credits 12, 4 repeats allowed; prereq Engl grad major or or instr consent;
Instructor: Messer-Davidow, Ellen
Description: Student may contact the instructor or department for information.

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: Craig, Siobhan S
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: Craig, Siobhan S
Description: Student may contact the instructor or department for information.

English: Creative Writing
222 Lind Hall

ENGW 3600W Writing Workshop for Majors: Poetry A-F only, 4 credit(s); prereq Engl major, 6 cr of ENGW [including 3xxx appropriate for workshop genre], jr or sr, major adviser approval, dept consent; Meets CLE req of Writing Intensive;
Instructor: Reichard, William J
Description: Student may contact the instructor or department for information.

ENGW 5130 Topics in Advanced Creative Writing
4 credit(s), max credits 16, 4 repeats allowed; prereq instr consent;
Instructor: Nowak, Mark A
Description: Student may contact the instructor or department for information.
ENGW 5207 Screenwriting II
4 credit(s); prerequisite 5205, one [Eng W or EngL or EngC] 3xxx course, [jr or sr], dept consent;
Instructor: Olive III, John Thomas
Description: Student may contact the instructor or department for information.

ENGW 8110 Seminar: Writing of Fiction: Narrative Efficiency
4 credit(s), max credits 16, 4 repeats allowed; prerequisite dept consent;
Instructor: Baxter, Charles Roger
Description: We’ll be reading some short novels and narrative poems (and a few short stories), with some attention to focusing agents, narrative efficiency, telescoping, tone, voice, and narrative temperatures. I’m particularly interested in the use of a narrowed range of subject-matter leading to a greater effect of intensity. Some possible choices of texts: Nathanial West, Miss Lonelyhearts; Penelope Fitzgerald, The Blue Flower; William Maxwell, So Long, See you Tomorrow; Evan Connell, Mrs. Bridge; Andrew Holleran, Grief; Djuna Barnes, Nightwood; Leo Tolstoy, Family Happiness; Paula Fox, The Widow’s Children and other texts to be determined. We’ll also be workshops some fiction.

ENGW 8120 Seminar: Writing of Poetry: Poetry into Prose
4 credit(s), max credits 8; prerequisite dept consent;
Instructor: Gonzalez, Ramon
Description: This course is an intense immersion in the short, short form. We will begin with prose poetry and discuss how the paragraph is a prominent form in poetics today. We will look at how prose poems transform themselves into flash fiction and nonfiction and debate genre issues that arise as labels placed upon flash forms. How does poetic tension in flash fiction and nonfiction erases boundaries and make them read like poetry? We will also look at the hybrid form of the lyric essay?an experimental form that bridges prose poetry, flash fiction and nonfiction. Each student will write numerous flash pieces throughout the semester and share and discuss them in class. The goal will be to create a chapbook of these forms by the end of the semester, a mini-manuscript that could become part of a larger thesis. Required texts: Nin Andrews, Sleeping with Houdini; John D’Agata (editor), The Next American Essay; Lydia Davis, Varieties of Disturbance; Lyn Hejinian, My Life; Peter Johnson, Miracles and Mortifications; Judith Kitchen (editor), Short Takes: brief Encounters with Contemporary Nonfiction; Ben Marcus, The Age of Wire and String; Charles Simic, Dime-Store Alchemy: The Art of Joseph Cornell; James Thomas and Robert Shapard (editors), Flash Fiction Forward: 80 Very Short Stories.?

ENGW 8130 Seminar: Writing of Literary Nonfiction
4 credit(s), max credits 8; prerequisite dept consent;
Instructor: Sprengnether, Madelon M
Description: “Memoir and Memory” will introduce you to some of the amazing work in cognitive neuroscience regarding the functions of memory formation, retention, retrieval, and degradation or loss. If memory is an unreliable narrator, as both postmodern theory and contemporary scientific studies indicate, how do we understand the writing of memoir--whether as readers or practitioners? The field of research on memory (and brain functioning in general) is exploding with new information. We will look at some of this research--in terms that a lay person can understand--and relate it to some classic and contemporary memory writing. Some areas of memory formation we will cover include: how new memories are laid down and retrieved; how didactic potential and the judicial 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 krischik01@umn.edu website.

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.

ENT 5121 Applied Experimental Design
4 credit(s); prerequisite 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); prerequisite 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, and other IPM resources on the web. The required textbook 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 krischik01@umn.edu website.

This information is accurate as of 9/15/2008 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.
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: Weller, Susan J.
Description: An introduction to the Aquatic Insects of North America; Third Edition (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 mid-semester exams counting 20% each.
Exam Format: Take home, with combination of multiple choice and short answer essay

ENT 8300 Graduate Seminar
S-N only, 1 credit(s); max credits 36, 6 repeats allowed;
Instructor: Weller, Susan J.
Description: Student may contact the instructor or department for information.

ENT 8200 Colloquium in Social Insects
1-3 credit(s), max credits 3, 1 repeat allowed; prerequisite 3020 or 3200;
Instructor: Spivak, Marla
Description: Student may contact the instructor or department for information.

ENT 8056 Supervised Laboratory or Extension Teaching Experience
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed; prerequisite 3005 or equiv or instr consent;
Instructor: Ferrington Jr, Leonard Charles
Description: Student may contact the instructor or department for information.

ENT 5371 Principles of Systematics
3 credit(s); prerequisite instructor consent; offered alternate years;
Instructor: Weller, Susan J.
Description: Student may contact the instructor or department for information.

ENT 5300 Graduate Seminar
S-N only, 1 credit(s); prerequisite instructor consent;
Instructor: Moon, Roger Dean
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: Katovich, Steven 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: Venette, Robert C
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: Fallon, Ann M
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: Sagarday, PhD, David 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: Heimpel, George Eugene
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: Ferrington Jr, Leonard Charles
Description: Student may contact the instructor or department for information.

Entrepreneurship
3-306 Carl Smgt

ENTR 6020 Business Formation
A-F only, 4 credit(s); prerequisite MBA student;
Instructor: Rao, Dileep R
Description: Description This course is structured to help students analyze a new business opportunity, especially one without a history, and the key strategies and issues involved in starting a venture. The class is therefore designed for "apprenticeship-type real-life" replication. You should be open to analyzing unstructured situations. This course is designed for students who are interested in the venture field interested in starting, joining or acquiring their own businesses; as an intermediary/consultant; as a financier (investment banker, commercial banker, development financier, etc.); or as a corporate executive involved in new product launch. Students are asked to analyze and discuss case studies of entrepreneurs who have started or acquired businesses and to develop reports analyzing an opportunity and developing a strategic plan for a business startup or acquisition to obtain insight into the startup process. Objectives 1. This course is designed to teach the students to apply the knowledge they have gained in previous courses in management, finance, and marketing. 2. To understand the entrepreneurial process and the steps for successful entrepreneurial growth to help students achieve venture and entrepreneurial goals. The primary objective of this course is to provide intellectual resources to students who are currently involved in or committed to entrepreneurial and new product pursuits as well as those who are interested in understanding entrepreneurship as a business phenomenon, whether or not they wish to pursue entrepreneurial careers. Learning Outcomes Students will demonstrate the understanding of key concepts that are used to evaluate new business opportunities by analyzing the market potential, competitive edge and market share. Then they will implement the strategy to take advantage of the opportunity either via a startup or an acquisition by evaluating alternative competitive business and marketing strategies, and the management skills and experience required. Unique Opportunities / Learning Activities This class offers real-life opportunity evaluation and business formation experiences, including: - Discuss the framework for evaluating new business opportunities and business formation strategies so as to be able to apply them to new products/ventures in your career. - Discuss cases of new ventures/ opportunities. - Hear entrepreneurs who have built their companies or are currently leading their ventures. Career Application and Competencies Developed The contents of this course can be used in a variety of careers, including: - New product launches in corporations or new ventures. - Evaluating opportunities to know which ones to pursue. - Know the key issues to pursue when evaluating your own new business opportunity.

ENTR 6021 Preparing and Implementing the Business Plan
A-F only, 2 credits(s), max credits 4, 1 repeat allowed; prerequisite MBA student;
Instructor: Rao, Dileep R
Description: Description Students work in a collaborative setting to develop 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. Students 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 toward 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); prerequisite MBA student;
Instructor: Rao, Dileep R
Description: 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.
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: Arnold, Todd W.
 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.
The course has no prerequisites and is appropriate for students with little or no scientific background.
Style: 50% Lecture, 5% Film/Video, 15% Discussion. 75 minute class periods will consist of lectures intermixed with small group
discussion activities
Grading: 55% mid exam, 27% reports/papers, 18% quizzes, 3 non-cumulative exams
Exam Format: Short answer, fill-in-the-blank, multiple choice, & true-false

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: Pavone, Carla
 Description: This course 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.

ESPM 1905 Freshman Seminar
1 credit(s), max credits 3, 1 repeat allowed;
 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 Perspective 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% true-false
Exam Format: 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: Corporate Response to Climate Change
A-F only, 1 credit(s); max credits 6, 6 repeats allowed;
 Instructor: Molina, Sergio
 Description: Climate change has gained political momentum and become a primary issue to businesses. Companies are
major emitters of greenhouse gases, and pressure is mounting for them to engage in a range of mitigation strategies, from
emission inventorying and trading schemes to investments in low-carbon technologies. In this class we will discuss policy
development by governments, along with different business strategies and practices in response to climate change. These strategies can be very diverse in nature, with companies testing ideas in anticipation of possible governmental regulation on climate change, to more practical strategies aimed to conserve energy in operations, transportation and buildings, to increase the use of renewable energy sources, to measurement of greenhouse gas emissions, and to develop emission trading markets among companies and/or countries. Most of these initiatives are operating in an uncertain and complex market environment, and potential regulations may vary tremendously depending on companies’ activities and industry sectors. We’ll analyze and discuss the general perspective of businesses on climate policies, review some experiences of policy instruments to control greenhouse gas emissions, and take a look at some developments within industry sectors that are likely to play an important role in future climate policies. The course is intended for students majoring in Environmental Sciences, Policy, and Management and for all students who are interested in the subject. The course has no prerequisites and is intended for students with little or no scientific background.

**Style:** 30% Lecture, 70% Discussion. 50-minute class periods will consist of readings and case discussions (both in small groups and at large) intermixed with lectures, videos, and guest speakers.

**Grading:** 70% In-class Participation, 30% Paper Presentation

**ESPM 3001 Treaty Rights and Natural Resources**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 5001; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Spangler, George R
**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:** Student may contact the instructor or department for information.

**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: Bolstad, Paul V
**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:** Student may contact the instructor or department for information.

**ESPM 3131 Environmental Physics**
A-F only, 3 credit(s); prereq Phys 1101;
Instructor: Muller, 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 Emerging Issues in Tropical Agriculture and Forestry: 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, Alan Ryan
**Description:** Student may contact the instructor or department for information.

**ESPM 3221 Soil Conservation and Land-Use Management**
3 credit(s); prereq 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. Relevan 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 affecting 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 3480 Topics in Natural Resources: Community Forestry: A Participatory Conserv Option**
1 credit(s), max credits 6, 6 repeats allowed;
Instructor: Current, Dean Alan
**Description:** Student may contact the instructor or department for information.

**ESPM 3480 Topics in Natural Resources: Sustainable Communities**
3 credit(s), max credits 6, 6 repeats allowed;
Instructor: Singh, Virajita
**Description:** Sustainable Communities provides a hands-on experience for addressing the complexity of a specific real-world sustainability problem each semester. In 2008, you will focus on greenhouse gas (GHG) emissions associated with components of the University community involving your daily actions: housing, transportation, and food. Class material will be presented through a combination of lecture and discussion and frequent participatory activities in which you will learn and apply systems
methods, stressing work in collaborative groups and consulting with university services staff. You will study the campus as a complex system by building future scenarios of the campus in 2050 and mind-maps of campus emissions. You will also learn to integrate approaches from design, natural and social sciences to identify creative ways to reduce emissions. Writing assignments include microthemes, a final project, and a reflective essay on your experience in the course and as a leader in making your community more sustainable. The course is primarily intended for undergraduates who have taken ESPM 3003/GLOS 3304 or obtained instructor consent. This is a core course for the Sustainability Studies minor.

**Style:** 30% Lecture, 50% Discussion, 20% Small Group Activities.

**Grading:** 45% reports/papers, 10% in-class presentation, 20% class participation, 25% problem solving.

ESPM 3575 Wetlands Conservation

3 credit(s); Credit will not be granted if credit has been received for: ESPM 5575;

**Instructor:** Landwehr, Thomas John

**Description:** Principles of wetlands. The role of wetlands in supporting aquatic life and providing water purification, flood control and recreation, and the effects of human activities on wetlands. Selected case studies.

**Grading:** 50% mid term, 50% final exam, 20% reports/papers, 10% special projects, 15% additional semester exams, 10% class participation.

ESPM 3601 Our Home, Our Environment

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: DHA 3482;

**Instructor:** Dolata, Rosemary Dawn

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

ESPM 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


ESPM 3703 Agroforestry in Watershed Management

3 credit(s); Credit will not be granted if credit has been received for: ESPM 5703;

**Instructor:** Zamora, Diomy Santos

**Description:** Agroforestry systems and practices are described and discussed as alternatives to more conventional agriculture in developing countries and as viable land use alternatives in poorer countries of the world. Attributes of agroforestry are studied, including a more diversified landscape, greater soil stability, improved water quality, reduced runoff, and improved wildlife habitat. The role of agroforestry in achieving watershed management benefits and ultimately sustainable development is discussed. Examples from North America and from other parts of the world are presented to emphasize agroforestry applications in both temperate and tropical climates. Lectures are mixed with active discussions. Students are required to develop and present a paper on an agroforestry topic.

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

**Grading:** 80% Lecture, 20% Discussion.

ESPM 4021W Problem Solving: Environmental Review

4 credit(s); Meets CLE req of Writing Intensive;

**Instructor:** Cooper, Terence H

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

ESPM 4093 Directed Study

1-7 credit(s), max credits 20, 20 repeats allowed; prereq instructor consent;

**Instructor:** Anderson, PhD, Dorothy Helen

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

ESPM 4093 Directed Study

1-7 credit(s), max credits 20, 20 repeats allowed; prereq instructor consent;

**Instructor:** Enzler, Sherry Anne

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

ESPM 4093 Directed Study

1-7 credit(s), max credits 20, 20 repeats allowed; prereq instructor consent;

**Instructor:** Bloom, Paul Ronald

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

ESPM 4094 Directed Research

1-7 credit(s), max credits 7, 7 repeats allowed; prereq instructor consent;

**Instructor:** Nater, Ed

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

ESPM 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.

ESPM 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:** 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.

ESPM 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.

ESPM 5001 Treaty Rights and Natural Resources  
A-F only, 3 credit(s); prerequisite Grad student or instr consent; Credit will not be granted if credit has been received for: ESPM 3001;  
Instructor: Spangler, George R  
Description: Student may contact the instructor or department for information.

ESPM 5031 Applied Global Positioning Systems for Geographic Information Systems  
A-F only, 3 credit(s); prerequisite Grad student or instr consent; Credit will not be granted if credit has been received for: Biol 5501;  
Instructor: Bolstad, Paul V  
Description: Student may contact the instructor or department for information.

ESPM 5111 Hydrology and Water Quality Field Methods  
A-F only, 3 credit(s); prerequisite Grad student or instr consent; Credit will not be granted if credit has been received for:  
Instructor: Magner, Joe  
Description: This course will help prepare you for future TMDL work. Helping you build a toolbox of field skills and knowledge will aid your future hydrologic or environmental career. We spend some time in the classroom but most of the time we climb into a van and go to NOAA, USGS, and MPCA for insight and training during the first 6-7 Thursdays. We skip some Thursdays in March and April to travel on a Saturday to the Knife River along the North Shore, see mud volcanoes in Deer Creek, assess sinkholes/springs in western WI, and measure streamflow in the Minnesota River valley. You need to make 2 of 3 all day trips in April.  
Style: 25% Lecture, 10% Discussion. Field  
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 20% in-class presentation, 5% other evaluation. Peer review  
Exam Format: Essay

ESPM 5202 Environmental Conflict Management, Leadership, and Planning  
A-F only, 3 credit(s); prerequisite Grad student or instr 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 Emerging Issues in Tropical Agriculture and Forestry: Costa Rica  
3 credit(s); prerequisite Grad student, instr 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 instr 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 instr 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 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  
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: Student may contact the instructor or department for information.

ESPM 5480 Topics in Natural Resources: Community Forestry: A Participatory Conservation Option  
1-4 credit(s), max credits 6, 6 repeats allowed; prerequisite Sr or grad student;  
Instructor: Current, Dean Alan  
Description: Student may contact the instructor or department for information.

ESPM 5575 Wetlands Conservation  
3 credit(s); prerequisite 3575; sr or grad student or instr consent; Credit will not be granted if credit has been received for: ESPM 3575;  
Instructor: Landwehr, Thomas John  
Description: Student may contact the instructor or department for information.

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 instr consent;  
Instructor: Halbach, Thomas R.  
Description: Student may contact the instructor or department for information.

ESPM 5605 Recycling: Extending Raw Materials Supplies  
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 3605;  
Instructor: Tschirner, Ulrike Waltrau  

ESPM 5607 Industrial Biotechnology and the Environment  
A-F only, 2 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 5703 Agroforestry in Watershed Management**
3 credit(s); prerequisite Grad student or instructor consent; Credit will not be granted if credit has been received for: ESPM 3703; Instructor: Zamora, Diomy Santos

**Description:** Agroforestry systems and practices are described and discussed as alternatives to more conventional agriculture in developed countries and as viable land use alternatives in poorer countries of the world. Attributes of agroforestry are studied, including a more diversified landscape, greater soil stability, improved water quality, reduced runoff, and improved wildlife habitat. The role of agroforestry in achieving watershed management benefits and ultimately sustainable development is discussed. Examples from North America and from other parts of the world are presented to emphasize agroforestry applications in both temperate and tropical climates. Lectures are mixed with active discussions. Students are required to develop and present a paper on an agroforestry topic.

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

**Grading:** 60% reports/papers, 10% special projects, 10% in-class presentation, 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, Stephan Paul

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

**Experimental and Clinical Pharmacology**
7-159 WDH

**ECP 8100 Seminar**
1 credit(s), maximum credits 8, 8 repeats allowed; prerequisite SACP grade major in ECP track or instructor consent; Instructor: Tracy, Tim

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

**ECP 8420 Clinical Trial Simulation**
2 credit(s); prerequisite SACP grade major in ECP track or instructor 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), maximum credits 8, 4 repeats allowed; prerequisite SACP grade major in ECP track or instructor consent; Instructor: Birnbaum, PhD, Angela K

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

**ECP 8993 Directed Study in Experimental and Clinical Pharmacology**
1-4 credit(s), maximum credits 4; Instructor: Noreddin, PhD, Ayman M

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

**ESPM 5345 Curriculum Design and Teaching Strategies for Medical Education I**
A-F only, 3 credit(s), prerequisite concurrent enrollment in 5346, instructor consent; Instructor: Bland, Carole Jeanne

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

**ESPM 5346 Curriculum Design and Teaching Strategies for Medical Education II**
A-F only, 1 credit(s); prerequisite concurrent registration is required (or allowed) in 5345, instructor 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); prerequisite concurrent registration is required (or allowed) in 5345, instructor consent; Instructor: Bland, Carole Jeanne

**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); prerequisite concurrent enrollment in 5346, instructor 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); prerequisite concurrent registration is required (or allowed) in 5345, instructor 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: Student may contact the instructor or department for information.

FSOS 1201 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: Student may contact the instructor or department for information.

FSOS 1301 Cash or Credit: You Need to Know
A-F only, 1 credit(s); prereq Fr or soph or PSEO; Instructor: Zuker, 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 and synthesis are used in responding to the course text, "Becoming a Helper" by Marianne and Gerald Corey (2003) 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 multiple choice and quizzes.

FSOS 2105 Methods in Family Research
3 credit(s); Credit will not be granted if credit has been received for: FSOS 4105; Instructor: Piescher PhD,Kristine Nicole Description: Student may contact the instructor or department for information.

FSOS 3101 Personal and Family Finances
3 credit(s); prereq At least soph or instr consent; Instructor: Zuker, 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); prereq At least soph or instr consent; Instructor: Katras, Mary Jo Bartl Description: Student may contact the instructor or department for information.

FSOS 3102 Family Systems and Diversity
3 credit(s); prereq 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: Amarapurkar, Sayali 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 (divorce, single parent, remarriage) will be discussed in the context of the latest research. This course satisfies the University's CLE requirements as a core social science course, which means it includes knowledge of how social scientists describe and analyze human experiences and behavior; study the interrelationships among individuals, institutions, structures, events, and ideas. It also offers understanding of the roles individuals and families play in their historical, cultural, social, economic, and political worlds. This course also satisfies the University's CLE requirements as a cultural diversity course, which means it offers 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. A collaborative and participatory classroom environment will be created through the use of several instructional strategies such as mini-lectures, video clips, small group discussions, large group discussions, case studies, think-pair-share, reflection pieces and quizzes. Style: 50% Lecture, 30% Discussion. Videos Grading: 14% mid exam, 30% final exam, 14% reports/papers, 30% quizzes, 12% other evaluation. Video workshops Exam Format: multiple choice, fill in the blank, short answer

FSOS 3104 Global and Diverse Families
3 credit(s); prereq at least Soph or instr consent; Credit will not be granted if credit has been received for: FSOS 4102; Instructor: Xiong PhD,Zha Blong Description: Student may contact the instructor or department for information.

FSOS 3104 Global and Diverse Families
3 credit(s); prereq 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; interracial/intercultural families; population policy; and economic, monetary, and trade policy.
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: Student may contact the instructor or department for information.

FSOS 3429 Counseling Skills Practicum I
3 credit(s); Credit will not be granted if credit has been received for: FSOS 5429; Instructor: Minor, Brier Miller
Description: Development of competency in basic counseling skills. Topics include: counselor needs/motivations, non-verbal communication, empathy (basic and advanced), identifying strengths, maintaining focus, challenging discrepancies, use of self. Emphasis on building from client strengths. Focus on learning through role-playing.
Style: 25% Lecture, 25% Discussion, role-play skill development
Grading: 30% final exam, 20% reports/papers, 25% class participation, 25% problem solving.
Exam Format: role play

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% midterm exam, 35% 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: Meyer, Cynthia Jo
Description: Family Psychology addresses processes that take place in families of origin, families of choice and other close relationships within diverse social contexts. Emphasis is place on evaluating current research on family dynamics within and across generations. In addition to looking at Family Systems Theory, specific topics include: family rituals, biology and family interactions, marital interactions, adoption, lesbian and gay families, aging, and family therapy. While the emphasis is on understanding current family research, the course also focuses on ways the material can be applied to the student's family and relationships as well as professional interactions with clients. Family Psychology is a writing intensive course which means that the course grade is directly tied to both the quality of writing as well as knowledge of the subject matter.
Style: 50% Lecture, 40% Discussion. films and videos
Grading: 30% final exam, 60% reports/papers, 5% in-class presentation, 5% class participation.
Exam Format: multiple choice and short essay

FSOS 4160H Honors Capstone Project
3 credit(s); prereq At least jr or instr consent; Meets CLE req of Writing Intensive; Instructor: Hope, Elizabeth Anne
Description: Student may contact the instructor or department for information.

FSOS 4152 Gay, Lesbian, and Bisexual People in Families
3 credit(s); prereq At least jr or instr consent; Instructor: Meyer, Cynthia Jo
Description: This course is designed to examine gay, lesbian, bisexual people in families and their unique contribution to the understanding of diversity among families. Current research, theory, and opportunities for self-reflection will be pathways to learn more about the diverse experiences of those who participate in families with gay, lesbian, and bisexual members. Course topics will include: definitions of "family", mythologies, coming-out, identity, homophobia, gender, family of origin, social networks, intimacy, sexuality, children, parenting, aging, AIDS and ethnicity. Methodological issues in research and clinical issues for these families will also be examined. Additionally, developmental, economic, social-political, and feminist theory will be applied to enrich perspectives of gay, lesbian, and bisexual people in families. To review course requirements, goals and objectives, and additional information about this course, students are encouraged to view the syllabus on the WEB. All students are invited to take this course.

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: Student may contact the instructor or department for information.

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 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: Groeant, Harold 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: Bauer, Jean 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, Zha Bong
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, Zha Bong
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, Zha Bong
Description: Student may contact the instructor or department for information.
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 9/15/2008 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 2008.
FSOS 8193 Directed Study in Family Social Science  
1-6 credit(s), max credits 12, 12 repeats allowed; prereq FSoS grad student or instr consent;  
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: Solheim, Catherine 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: Grotevant, Harold 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: Bauer, Jean W  
Description: Student may contact the instructor or department for information.

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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: Craft, Shonda M  
Description: Student may contact the instructor or department for information.

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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.

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: Turner, William Lofton  
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: McCulloch, B. Jan  
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FSOS 8193 Directed Study in Family Social Science  
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<th>Prerequisites</th>
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<td>FSOS 8560</td>
<td>Advanced Clinical Topics in Marriage and Family</td>
<td>Rettig PhD, Kathryn K. D.</td>
<td>S-N only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq FSOS PhD student or inst consent</td>
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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;
Instructor: Xiong, PhD 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: Danes, Sharon 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: 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: Zulker, 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: 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: 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: Ruetter, 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: Gewirtz, Abigail
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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.

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: 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: 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: Molloy, John William
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: 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: Molloy, John William
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, 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: Xiong, 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: Danes, Sharon 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: 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: Pan, Yihui
Description: Student may contact the instructor or department for information.

FINA 3001 Finance Fundamentals
3 credit(s); prereq ACCT 2050, OMS 2550; Credit will not be granted if credit has been received for: APEC 3501;
Instructor: Molloy, John William
Description: Student may contact the instructor or department for information.

FINA 3001 Finance Fundamentals
3 credit(s); prereq ACCT 2050, OMS 2550; Credit will not be granted if credit has been received for: APEC 3501;
Instructor: Kozhanov, Igor
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: Kim, Andy
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: Craft, Shonda M
Description: Student may contact the instructor or department for information.

Finance
3-122 Carlson School of Management
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: Madia PhD, Ashwin M
Description: Student may contact the instructor or department for information.

FINA 4121 Financial Markets and Interest Rates
A-F only, 2 credit(s); prereq 4241;
Instructor: Nelson, Rick
Description: This course develops the basic framework for valuing fixed income securities. The focus is developing an in-depth understanding of the term structure on interest rates, forward rates, and the principles of fixed income valuation. The course also includes a survey of the Treasury, Corporate, Municipal, and Securitization markets. Course Learning Objectives: The approach is to provide a solid generalized valuation framework, therefore the learning outcomes are not a set of facts, although there are always stylized facts that must be learned, but a way of thinking about relative valuation of cash flows in markets. This course will focus on developing the fundamentals of the valuation of fixed income securities and basic interest rate derivatives, because bond markets provide an excellent introduction to the fundamental skills of valuation that are at the heart of the practice of finance. There will be an emphasis on the theoretical framework of interest rate markets and bond pricing because understanding these fundamentals will serve you well in your future careers. Financial markets are continuously evolving and a solid foundation in the basics of finance theory will never become obsolete. Course Delivery Methods: This course combines lectures, readings, problems and group work to help the student master the material. Most of the learning will occur outside of class as you work through the individual and group assignments and review the material from lectures.
Style: 90% Lecture, 10% Discussion.
Grading: 50% final exam, 20% special projects, 20% quizzes, 10% problem solving.
Exam Format: Problems

FINA 4212 Banking Institutions
A-F only, 2 credit(s); prereq 4121, 4241;
Instructor: Dahl, David
Description: This course develops an understanding of the management of banking institutions. The course features a combination of theory and practice in banking. Specific topics include asset management, liability management, capital management, and public policy issues in banking.
Style: 70% Lecture, 10% Discussion. In class problems
Grading: 50% final exam, 20% special projects, 30% other evaluation. Problem Sets
Exam Format: Multiple choice, Short Essays and Problems

FINA 4241 Corporate Financing Decisions
A-F only, 4 credit(s); prereq 3001;
Instructor: Gupta, Shamli
Description: Student may contact the instructor or department for information.

FINA 4242 Corporate Financing Decisions
A-F only, 4 credit(s); prereq 3001;
Instructor: Singh, Raj
Description: Student may contact the instructor or department for information.

FINA 4243 Corporate Financing Decisions
A-F only, 4 credit(s); prereq 3001;
Instructor: Moser, Helen
Description: Student may contact the instructor or department for information.

FINA 4242 Corporate Investment Decisions
A-F only, 4 credit(s); prereq 4241;
Description: Student may contact the instructor or department for information.

FINA 4243 Corporate Investment Decisions
A-F only, 4 credit(s); prereq 4241;
Instructor: Zapp, Kenneth M
Description: This course focuses on efficiently managing net working capital and real assets. The course includes cases to illustrate many of the topics. Topics include: working capital management, making capital budgeting decisions, targeting and evaluating firm performance, and assessing mergers and acquisitions. Case studies will be assigned to groups for in-depth analysis and presentation. Each group will be assigned one Minnesota based publicly traded company for their special focus during the semester. Current literature will also be explored to enable us to keep current on the firms studied and the topics discussed. The course is intended to be highly interactive. Extensive participation is expected.
Style: 40% Lecture, 30% Discussion. case and company presentations
Grading: 40% final exam, 20% reports/papers, 30% in-class presentation, 10% class participation.
Exam Format: short essay

FINA 4321 Portfolio Management and Performance Evaluation
A-F only, 2 credit(s); prereq 4241;
Instructor: Belo, Frederico
Description: Student may contact the instructor or department for information.

FINA 4322 Security Analysis
A-F only, 2 credit(s); prereq 4241;
Instructor: Lagg, Thomas D
Description: Student may contact the instructor or department for information.

FINA 4341 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 swap 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.
A-F only, 4 credit(s); prereq 3001;
Instructor: Bazdresch,Santiago
Description: Student may contact the instructor or department for information.

FINA 6121 Debt Markets, Interest Rates, and Hedging
A-F only, 2 credit(s); prereq MBA 6230, MBA student;
Instructor: Nelson,Rick
Description: Student may contact the instructor or department for information.

FINA 6122 Financial Management of Depository Institutions
A-F only, 2 credit(s); prereq 6121, MBA 6230;
Instructor: Dahl,David
Description: Student may contact the instructor or department for information.

FINA 6241 Corporate Finance Analysis and Decisions
A-F only, 4 credit(s); prereq MBA 6230, MBA student;
Instructor: Chutikamoltham,Siri
Description: Student may contact the instructor or department for information.

FINA 6241 Corporate Finance Analysis and Decisions
A-F only, 4 credit(s); prereq MBA 6230, MBA student;
Instructor: Povel,Paul E M
Description: Student may contact the instructor or department for information.

FINA 6242 Advanced Corporate Finance Analysis and Decisions
A-F only, 4 credit(s); prereq 6241;
Instructor: Legg,Thomas D
Description: Student may contact the instructor or department for information.

FINA 6322 Financial Performance and Security Analysis
A-F only, 2 credit(s); prereq MBA 6230, MBA student;
Instructor: Nantell,Timothy J
Description: Student may contact the instructor or department for information.

FINA 6324 Securitization Markets
A-F only, 2 credit(s); prereq 6121;
Instructor: Nelson,Rick
Description: Student may contact the instructor or department for information.

FINA 6341 World Economy
A-F only, 4 credit(s); prereq MBA 6230, MBA student;
Instructor: Chutikamoltham,Siri
Description: Student may contact the instructor or department for information.

FINA 6341 World Economy
A-F only, 4 credit(s); prereq MBA 6230, MBA student;
Instructor: Boyd,John H
Description: Student may contact the instructor or department for information.

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 or department for information.

FINA 6621 International Financial Management
A-F only, 2 credit(s); prereq MBA 6230, MBA student;
Instructor: Winston Smith PhD,Sheryl
Description: Student may contact the instructor or department 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 or department for information.

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

FINA 6801 Finance Independent Study
1-6 credit(s), max credits 6, 1 repeat allowed; prereq MBA student;
Instructor: Nantell,Timothy J
Description: Student may contact the instructor or department for information.

FINA 8812 Corporate Finance I
2 credit(s); prereq [Econ 8103, Econ 8104, business admin PhD student] or instr consent
Instructor: Bazdresch,Santiago
Description: Student may contact the instructor or department for information.

FINA 8822 Empirical Methods in Finance
2 credit(s); prereq 8802, 8803;
Instructor: Belo,Frederico
Description: Student may contact the instructor or department for information.

FINA 8890 Seminar: Finance Topics
A-F only, 2-4 credit(s), max credits 16, 4 repeats allowed;
prereq [[8802, 8812, 8822, 8823] or equiv], business admin student] or instr consent
Instructor: Graveline,Jeremy J
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: Hatfield,Gary Alan
Description: Student may contact the instructor or department for information.

FM 5092 Programming and Presentation in Finance II
3 credit(s); prereq 5091I, grad MFM major, program director approval;
Instructor: Prouty,Christopher William
Description: Student may contact the instructor or department for information.
FIN 1002 Beginning Finnish
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: FIN 4002; Instructor: Karvonen,Daniel
Description: In this course, the second half of the first-year language sequence in Finnish, the acquisition of basic proficiency in Finnish that began in FIN 1001 will continue in all four modalities: speaking, listening, reading, and writing. The main textbook for the course is "Supisuomea" (chapters 6-10), which is accompanied by a CD, video, and supplementary materials on the Internet. Students will be exposed to both the written and spoken varieties of Finnish, which can differ quite markedly from one another. Authentic materials reflecting Finnish culture (e.g., songs, movies, etc.) will also be used. Much of class time will focus on interactive communicative activities designed to activate the material learned in class, with students working in groups or pairs. Qualified students may register for this course under the 4002 designator (see below) for 2 credits (and reduced tuition).
Style: 20% Lecture. Interactive exercises
Grading: 10% final exam, 21% reports/papers, 30% quizzes, 6% in-class presentation, 21% class participation, 12% other evaluation, oral interviews
Exam Format: Short answer, essay, matching

FIN 1004 Intermediate Finnish
5 credit(s); prereq 1003; Credit will not be granted if credit has been received for: FIN 4004; Instructor: Karvonen,Daniel
Description: In this course, the second half of the second-year language sequence in Finnish, students' skills in reading, writing, speaking, and understanding will be further honed and refined. The main textbook for the course is "Elaman suolaa: Suomen kielen alkeita 2" (chapters 31-40). The cassette tape accompanying "Elaman suolaa" will be used in class, and students are also encouraged to listen to it in the language lab. Students will continue to learn both the written and spoken varieties of Finnish. Authentic materials reflecting Finnish culture (e.g., songs, movies, TV news broadcasts, newspaper articles, etc.) will also be used. Much of class time will focus on interactive communicative activities designed to activate the material learned in class, with students working in groups or pairs. This course will prepare students to take the Language Proficiency Exam (LPE), which will be taken near the end of the course. Qualified students may register for this course under the 4004 designator (see below) for 2 credits (and reduced tuition).
Style: 20% Lecture. Interactive exercises
Grading: 10% final exam, 21% reports/papers, 14% quizzes, 5% in-class presentation, 30% class participation, 21% other evaluation, tests, 12% oral interviews
Exam Format: Short answer, essay, matching

FIN 3012 Advanced Finnish
3 credit(s); prereq 3011; Instructor: Karvonen,Daniel
Description: This course is the second half of the third-year language sequence in Finnish, and is designed to deepen and hone students' skills in oral and written expression in Finnish. Advanced grammatical constructions which are characteristic of written Finnish will be covered via class handouts and authentic Finnish texts, such as short stories and newspaper articles, which will form the basis for classroom discussions. Students will write three essays, do three short take-home exams, and complete a final project on a topic of their choice.
Style: 20% Lecture, 80% Discussion
Grading: 24% reports/papers, 6% special projects, 12% in-class presentation, 28% class participation, 30% other evaluation, three take-home quizzes
Exam Format: short answer, essay

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: Karvonen,Daniel
Description: In this course, the second half of the first-year language sequence in Finnish, the acquisition of basic proficiency in Finnish that began in FIN 4001 will continue in all four modalities: speaking, listening, reading, and writing. The main textbook for the course is "Supisuomea" (chapters 6-10), which is accompanied by a CD, video, and supplementary materials on the Internet. Students will be exposed to both the written and spoken varieties of Finnish, which can differ quite markedly from one another. Authentic materials reflecting Finnish culture (e.g., songs, movies, etc.) will also be used. Much of class time will focus on interactive communicative activities designed to activate the material learned in class, with students working in groups or pairs.
Style: 20% Lecture. Interactive exercises
Grading: 10% final exam, 18% reports/papers, 16% quizzes, 4% in-class presentation, 30% class participation, 12% other evaluation, tests, 10% oral interview
Exam Format: Short answer, essay, matching

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: Karvonen,Daniel
Description: In this course, the second half of the second-year language sequence in Finnish, students' skills in reading, writing, speaking, and understanding will be further honed and refined. The main textbook for the course is "Elaman suolaa: Suomen kielen alkeita 2" (chapters 31-40) which is supplemented by the optional text &quot;Finnish: An Essential Grammar. " The cassette tape accompanying &quot;Elaman suolaa" will be used in class, and students are also encouraged to listen to it in the language lab. Students will continue to learn both the written and spoken varieties of Finnish. Authentic materials reflecting Finnish culture (e.g., songs, movies, TV news broadcasts, newspaper articles, etc.) will also be used. Much of class time will focus on interactive communicative activities designed to activate the material learned in class, with students working in groups or pairs. This course will prepare students to take the Language Proficiency Exam (LPE), which will be taken near the end of the course. Qualified students may register for this course under the 4004 designator (see below) for 2 credits (and reduced tuition).
Style: 20% Lecture. Interactive exercises
Grading: 18% reports/papers, 14% quizzes, 5% in-class presentation, 30% class participation, 21% other evaluation, tests, 12% oral interviews
Exam Format: Short answer, essay, matching

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 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 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: Kapusciniski 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: 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;
Instructor: Ankley,Gerald T
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 instr consent;
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; prereq instr consent;
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; prereq instr consent;
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; prereq instr consent;
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 instr consent;
Instructor: Mech PhD,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 instr 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 instr consent;
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; prereq instr consent;
Instructor: Ankley,Gerald T
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 instr consent;
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; prereq instr consent;
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; prereq instr consent;
Instructor: Ankley,Gerald T
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 instr consent;
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; prereq instr consent;
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; prereq instr consent;
Instructor: Ankley,Gerald T
Description: Student may contact the instructor or department for information.
Schedule.

This information is accurate as of 9/15/2008 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 2008.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instr consent;
Instructor: Starfield, Anthony Michael
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 instr 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 instr consent;
Instructor: Gutiérrez, Ralph 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; prereq instr consent;
Instructor: Franklin, Alan
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 instr consent;
Instructor: Loegering, John P
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 instr consent;
Instructor: Blair, Robert B
Description: Student may contact the instructor or department for information.

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 will address: 1. physiological function and metabolic fate of all six classes of nutrients that are ingested by active individuals in the attempt to improve athletic performance; 2. impact on physiology of ergogenic aids and various dietary supplements ingested by athletes, presenting an overview of the involvement of these components in fulfilling energy/recovery needs for continual and progressive athletic performance. A class orientation via UConnect and syllabus and other materials will be available on the class website the week before classes start. We cover 1 chapter a week and weekly multiple choice quizzes are done online via the class website and short answer critical thinking questions are submitted via the class website. 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.
Style: web-based with class meeting the first week only
Grading: 50% quizzes, 50% other evaluation. 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. An online 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. Thereafter weekly homework and critical thinking questions are submitted and graded online via the class website. 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: totally online after orientation meeting the first week
Grading: 100% other evaluation. homework and critical thinking questions
Exam Format: Homework and critical thinking are short answer to several paragraph answers

FSCN 1102 Food: Safety, Risks, and Technology
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Labuzza, 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 these 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, Johness 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 processing, 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

This information is accurate as of 9/15/2008 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 1112 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. scientific 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. Most material covered in class lectures is available in the text and power points posted on the class website, but additional information, examples, and practice questions will be given in lecture. One to two questions on quizzes (out of 20 total) will be from material only covered 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 5.5-6, but some students indicate that they find the material difficult.
Style: 90% Lecture, small group discussion
Grading: 20% final exam, 40% other evaluation. Diet analysis and associated questions
Exam Format: multiple choice

FSCN 4614 Community Nutrition
3 credit(s); prereq 1112; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Smith, Cherry
Description: 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.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 30% final exam, 10% quizzes, 30% laboratory evaluation.
Exam Format: Problems and short answers

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

FSCN 5481 Sensory Evaluation of Food Quality  
2 credit(s); prereq 3102, STAT 3011;  
Instructor: Vickers, Zata M  
Description: This course focuses on the test methodologies for studying the sensory properties of foods and the acceptability of foods. Students participate in laboratory exercises that involve tasting foods, analyzing the data using statistical software, and writing brief reports of the methodologies and results. Classroom lectures and discussions focus on the strengths and weaknesses of the methodologies and how they impact the interpretation of the results. Students work in small groups on a sensory research project that involves conducting a taste test, analyzing and interpreting the data and preparing both written and oral reports.  
Style: 30% Lecture, 40% Discussion, 30% Laboratory.  
Grading: 35% mid exam, 40% reports/papers, 25% special projects.  
Exam Format: essay

FSCN 8310 General Seminar  
S-N only, 1 credit(s), max credits 2; prereq instr consent;  
Instructor: Mashek, Douglas  
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.

FSCN 8335 Carbohydrate Chemistry in Food and Nutrition  
2 credit(s); prereq 4111;  
Instructor: Bunzel, Mirko  
Description: Student may contact the instructor or department for information.

FSCN 8336 Lipid Chemistry and Rancidity of Foods  
2 credit(s); prereq 4111;  
Instructor: Caillany, A Saari  
Description: Student may contact the instructor or department for information.

FSCN 8391 Independent Study: Food Science  
1-4 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;  
Instructor: Viker, Susan Kay  
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

FR 3203 Forest Fire and Disturbance Ecology  
A-F only, 3 credit(s); prereq [3104 or equiv], course fee; Credit will not be granted if credit has been received for: FR 5203;  
Instructor: Freligh, 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

FR 3218 Measuring & Modeling Forests  
A-F only, 3 credit(s); prereq [Math 1142 or [Math 1271, Math 1272]], 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.

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.

FR 3411 Managing Forest Ecosystems: Silviculture  
3 credit(s); prereq [3104, non FR [major or minor]] or [3104, concurrent enrollment in 5413, FR [major or minor]] or instr 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.

FR 3431 Timber Harvesting and Road Planning  
2 credit(s); prereq 3411 or instr 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. One all-day field trip in February  
Style: 70% Lecture, 5% Film/Video, 5% Small Group Activities, 10% Student Presentation, 10% Field Trips.
FR 3501 Arboriculture: Selection and Maintenance of Trees
3 credit(s); prereq [1101 or Hort 1012], Biol 2022;
Instructor: Johnson, Gary R
Description: This course is designed for the undergraduate student with a background in plant biology that 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 Arboriculture: 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, 10% 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

FR 3612 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 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 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 or April.
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 4501 Urban Forest Management: Managing Greenspaces for People
3 credit(s); prereq [1101, 3501, Ent 4521, PiPa 3003, [UF major or minor] or instr consent]; Credit will not be granted if credit has been received for: FR 5501; Meets CLE req of Citizenship/Publ Ethics Theme;
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; and 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 5131 Geographical Information Systems (GIS) for Natural Resources
A-F only, 4 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3131;
Instructor: Jenks, Andrew Carl
Description: Introduction to GIS. Focuses on natural resources. Data structures, sources, collection, and quality. Lab exercises introduce geodesy, map projections, spatial analyses, and cartographic modeling.

FR 5146 Science and Policy of Global Environmental Change
3 credit(s), max credits 4, 1 repeat allowed; prereq 3104 or Biol 3407 or equiv; Credit will not be granted if credit has been received for: EEB 5146; Meets CLE req of Environment Theme;
Instructor: Hbbie, Sarah E
Description: Through readings, lectures, discussions, and presentations this course will introduce the critical issues underpinning global change and its biological implications. The course will examine current scientific literature in exploring evidence for human-induced global change and its potential effects on a wide range of biological processes, focusing on (but not limited to) terrestrial ecosystems. We will also examine some of the economic drivers, economic consequences, and political processes related to global change, including local, national and international laws and policies that impact global change.
Style: 75% Lecture, 25% Discussion.
Grading: 15% mid exam, 15% final exam, 30% reports/papers, 15% in-class presentation, 15% class participation, 10% other evaluation. Daily questions are required in each class about readings
Exam Format: Essay

FR 5203 Forest Fire and Disturbance Ecology
A-F only, 4 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: 60% 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], course fee; 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

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**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.

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**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/coasts, 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. One all-day field trip in February.

**Style:** 70% Lecture, 5% Film/Video, 5% Small Group Activities, 10% Student Presentation, 10% Field Trips.

**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 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.

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**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 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 or April.

**Grading:** 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.

**Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.**
FR 8204 Research Problems: Forest Policy
1-5 credit(s), max credits 10, 4 repeats allowed;
Instructor: Becker,Dennis R
Description: Student may contact the instructor or department for information.

FR 8205 Research Problems: Spatial Data Analysis
1-5 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Bauer,Marvin E
Description: Student may contact the instructor or department for information.

FR 8205 Research Problems: Spatial Data Analysis
1-5 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Bolstad,Paul V
Description: Student may contact the instructor or department for information.

FR 8206 Research Problems: Forest Management
1-5 credit(s), max credits 5, 1 repeat allowed;
Instructor: Blinn,Charles R
Description: Student may contact the instructor or department for information.

FR 8207 Economic Analysis of Natural Resource Projects
A-F only, 2 credit(s); prereq instr consent;
Instructor: Becker,Dennis R
Description: Student may contact the instructor or department for information.

FR 8207 Economic Analysis of Natural Resource Projects
A-F only, 2 credit(s); prereq instr consent;
Instructor: Suh,Sangwon
Description: Student may contact the instructor or department for information.

FR 8208 Research Problems: Environmental Learning and Leadership
1-5 credit(s), max credits 5, 1 repeat allowed; prereq instr consent;
Instructor: Eckman,Karlyn
Description: Student may contact the instructor or department for information.

FR 8208 Research Problems: Environmental Learning and Leadership
1-5 credit(s), max credits 5, 1 repeat allowed; prereq instr consent;
Instructor: Anderson PhD,Dorothy Helen
Description: Student may contact the instructor or department for information.

FR 8208 Research Problems: Environmental Learning and Leadership
1-5 credit(s), max credits 5, 1 repeat allowed; prereq instr consent;
Instructor: Carlson,Stephan Paul
Description: Student may contact the instructor or department for information.
**FREN 100 Reading French in the Arts and Sciences**

*Description:* This noncredit course is intended to serve primarily graduate students in other disciplines who wish to satisfy a language requirement in their degree program with French. For this reason, the course focuses exclusively on learning to read French. Intensive reading and translation of texts from a wide variety of disciplines. Requires considerable study outside of class, according to the student's language learning ability and previous knowledge of French, if any. Previous knowledge of French not required. Students who pass the exam given at the end of the course will obtain Language Certification in French which satisfies a Graduate School requirement.

**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 3020 The Language and Culture of Business in France**

*3 credit(s); prereq 3015; completion of 3016 recommended; Instructor: Mougel,Patricia M*

*Description:* This course will examine business practices in France from a linguistic and cultural perspective. Course participants will: 1) Receive an introduction to French economy and its place in the global economy, 2) Gain insights into current socio-economic issues in France and the European Union, 3) Learn the language and discourse used in French business and economics. 4) Become familiar with standard French business correspondence, 5) Gain a better understanding of similarities and differences in business practices between France and the United States. A selection of topics to be discussed includes: the euro and the European Union, banking, office & management practices, technology, employment/unemployment, employee/employer relations, insurance, taxes, transportation, imports/exports. Course activities will include: vocabulary-building tasks, translations, business letter-writing, listening and reading comprehension activities using authentic written and audio/video materials, group discussions and role-plays. This course is web-enhanced and will allow students to further develop their listening, reading and writing skills outside of class by exploring business content.

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

*Grading:* 15% final exam, 15% special projects, 7% quizzes, 18% in-class presentation, 15% class participation, 25% other evaluation. 3 written exams, 5% on-line homework.

**Exam Format:** Short answer questions and essay writing.

**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: Sivert,Eileen B*

*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.

**FREN 3250 French Poetry**

*3 credit(s), max credits 9, 3 repeats allowed; prereq 3101; Instructor: Robinson,Peter H*

*Description:* Through careful reading of lyric poems chosen from the 16th to the 21st century we will explore together changing notions of what constitutes a poem. We will pay special attention to concepts of ?poetic? language including versification as well as examine to what extent various political, social and cultural developments influenced the poetry of a particular period.

**FREN 3330 Literature and the Making of Modern France: 20th-Century Perspectives**

*3 credit(s), max credits 9, 3 repeats allowed; prereq 3101; Instructor: Brewer,Maria M*

*Description:* Literature and the Making of Modern France: 20th-Century Perspectives. Our objective in this seminar-type course is to understand the literatures and cultures of modern France by exploring their diverse relationships with major historical events and social movements and political transformations. Among those that have shaped modern French consciousness are WW I, the inter-war years, WW II, the Indochinese War, the Algerian War and decolonization, the student and gender movements after 1968, and phenomena of cultural difference and migration. In our readings, we will analyze significant shifts in ways of telling and narrative, questions of subjectivity and the cultural unconscious, and redefinitions of memory, modern urban spaces, and common ground. Authors to be studied will be selected from the following: Andre Gide, Albert Camus, Jean-Paul Sartre, Simone de Beauvoir, Georges Perec, Marguerite Duras, and Francois Maspero.

*Style:* 60% Lecture, 40% Discussion.

*Grading:* 15% mid exam, 60% reports/papers, 5% additional semester exams, 5% in-class presentation, 15% class participation.

*Exam Format:* Essay.

**FREN 3479 Francophone Writers of the African Diaspora**

*3 credit(s); prereq 3101; Meets CLE req of International Perspect Theme; Instructor: Preckshot,J E*

*Description:* Although entitled "Africans in Paris: Stories of Students and Workers," this course is focused as much on the movement between Africa and France as it is on Paris, the dream destination for many Sub-Saharan francophone Africans who have made their way to France either as students or workers throughout the 20th century. The first belong to an elite class of educated Africans among which have been celebrated intellectuals, writers, and artists as well as future heads of state. The second, often semi-literate and from impoverished rural areas, found their way to France first as seamen or soldiers in...
the Colonial Army called upon to defend France during two world wars, more recently as laborers and undocumented workers. What conjoins these two distinct classes is the fact of being in transit between two continents. Recurring in literature and film, the figures of the student and worker embody aspirations towards greater opportunities motivating their movement from South to North and are emblematic of sometimes alienating lived experience resulting in immigration for some and return home for others. This course invites reflection on transnational movements from the perspective of francophone Africans and film-makers, whose works will be supplemented by readings documenting relevant social and historical phenomena such as the Tiraillleurs Senegalais, 1931 colonial exposition, sapers and sans-papiers.

**FREN 3650 Topics in French/ Francophone Cultures: The 'Francophonie' in Switzerland**

- **Credit(s):** 3 credits, max credits 9, 3 repeats allowed; prereq 3015;
- **Instructor:** Crepon, Pascale Florence

**Description:** Course prerequisite: Students must have successfully passed French 3015: Advanced Grammar and Communication. Course description: The Francophone culture beyond Europe is the legacy of the French colonial empire, but what about the European Francophone countries such as Belgium, Luxembourg, or Switzerland? This course will introduce students to the European 'francophonie'? while exploring historical, political and cultural facts about Switzerland. We will engage with the unique francophone aspects of this country through critical essays, print media, films and literary texts from and about Switzerland. We will point out differences from and similarities with another European country, Belgium, as well as other francophone countries outside of Europe. We will also address the questions of national and linguistic identities, immigration and emigration regarding Switzerland. This survey course has 3 main goals: 1) to examine a Francophone European country in order to expand the definition of ?francophonie?, 2) to engage on the problematic of French influences in language acquisition, culture and literature within Europe, 3) to improve linguistic skills in reading, writing, and speaking French. Requirements: All readings, discussions, presentations, and papers will be in French. Students will be evaluated on the basis of participation in class discussions, oral presentations, three reaction papers, and a final research project. Readings: - Histoire Suisse en un clin d’œil, Joelle Kuntz, Carouge-Geneve : Editions Zoe, 2007 - Selections of literary texts, critical essays, and print media, available as a course packet.

**FREN 3650 Topics in French/ Francophone Cultures: The Medieval Image**

- **Credit(s):** 3 credits, max credits 9, 3 repeats allowed; prereq 3015;
- **Instructor:** Brown, Mary Frances

**Description:** This course will treat the medieval image in its myriad manifestations: the role of imagery in the visual and verbal arts (and the interference between the two), the theorization of the human being as image of the divine, the polemics against idolatry, and the theology of light. We will read medieval romance and courtly lyric alongside medieval polemics against idolatry, and the theology of light. Theorization of the human being as image of the divine, the verbal arts (and the interference between the two), the myriad manifestations: the role of imagery in the visual and verbal arts (and the interference between the two), the theorization of the human being as image of the divine, the polemics against idolatry, and the theology of light. Theorization of the human being as image of the divine, the verbal arts (and the interference between the two), the myriad manifestations: the role of imagery in the visual and verbal arts (and the interference between the two), the theorization of the human being as image of the divine, the polemics against idolatry, and the theology of light. Theorization of the human being as image of the divine, the verbal arts (and the interference between the two), the myriad manifestations: the role of imagery in the visual and verbal arts (and the interference between the two), the theorization of the human being as image of the divine, the polemics against idolatry, and the theology of light. Theorization of the human being as image of the divine, the verbal arts (and the interference between the two), the myriad manifestations: the role of imagery in the visual and verbal arts (and the interference between the two), the theorization of the human being as image of the divine, the polemics against idolatry, and the theology of light. Theorization of the human being as image of the divine, the verbal arts (and the interference between the two), the myriad manifestations: the role of imagery in the visual and verbal arts (and the interference between the two), the theorization of the human being as image of the divine, the polemics against idolatry, and the theology of light. Theorization of the human being as image of the divine, the verbal arts (and the interference between the two), the myriad manifestations: the role of imagery in the visual and verbal arts (and the interference between the two), the theorization of the human being as image of the divine, the polemics against idolatry, and the theology of light. Theorization of the human being as image of the divine, the verbal arts (and the interference between the two), the myriad manifestations: the role of imagery in the visual and verbal arts (and the interference between the two), the theorization of the human being as image of the divine, the polemics against idolatry, and the theology of light. Theorization of the human being as image of the divine, the verbal arts (and the interference between the two), the myriad manifestations: the role of imagery in the visual and verbal arts (and the interference between the two), the theorization of the human being as image of the divine, the polemics against idolatry, and the theology of light.

**FREN 4022 Accelerated Beginning French**

- **Credit(s):** 2 credits; prereq Grad student; Credit will not be granted if credit has been received for: FREN 1002;
- **Instructor:** Woolridge, Sondes Douzi

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

**FREN 4101W Seminar in French Studies**

- **Credit(s):** 3 credits in advanced electives numbering 3111 or above in the French major for 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.
- **Instructor:** Faye, Moussa

**Description:** Students design and carry out a substantial project on a topic of their choice in the area of French and Francophone Studies (linguistics, literature or 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.

**Grading:** 100% Discussion.

**Exam Format:** Essay

**FREN 4101W Seminar in French Studies**

- **Credit(s):** 3 credits; prereq Completion of all pre-elective requirements for major or permission of DUS; Meets CLE req of Writing Intensive;
- **Instructor:** Wall-Romana, Christophe M

**Description:** 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 or 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.

**Grading:** 100% Discussion.

**Exam Format:** Essay

This information is accurate as of 9/15/2008 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 5301 Critical Issues in French Studies
3 credit(s); prereq Grad or instr consent; Instructor: Wall-Romana, Christophe M.
Description: The Theory of Poetics (Whatever Happened to Poetics?) This seminar will examine the role and fate of ?la poétique,? a focal term for literary studies, within contemporary theory and criticism in the French domain. Poststructuralism in the 1970s densely echoed of ?poetics? coming from several sources: Valery?s 1937 recovery of the term in the wake of Mallarme, Russian formalist ?poetika,? Heidegger?s temporal poiesis, and the coinage of le poétique. But what exactly is (or was) poetics? A set of features, of concepts, of practices? Is it a methodology, or a kind of freedom from method? What does poetics have to do with poetry, and with ?le poétique,? as designating the generic specificity of poetry? What is the relation of poetics to genre or literature at large? This seminar will use poetics to explore the interpretive commitment. We will examine models closely related to it?text, hermeneutics, close reading, esthetics, imaginary, tropes, and literature?as well as newer notions taking their distance from poetics: discourse, culture, power, identity, media. The eclipse of poetics intrigues me, and we might look into some critics and thinkers who don?t appear to need it: Adorno, Sartre, Lacan, Deleuze, Foucault, Lyotard, Jameson, Butler, Zizek, Negri, or Appadurai. Discussions and readings will be in English and French (at the discretion of participants) and will include: Mallarme, Valery, Bachelard, Fondane, Barthes, Derrida, Irigary, Meschonnic, Jakobson, Shklovsky, Eikenbaum, Genette, Ponge, Deguy, Glissant, Lacoue-Labarthe, Kristeva, Jameson, Gunler, Barbara Johnson, Hartman, Agamben, Natalie Melas, Lyn Hejinian, Christian Pringent, Christophane Hanna, James Sacre, Max Loreau, Henri Lefebvre, Varela and Maturana, Peter Stockwell.

FREN 5350 Topics in Literature and Culture: France & the Maghreb: Literature, Film & Society
3 credit(s), max credits 12, 4 repeats allowed; prereq 3101 or equiv;
Instructor: Abderrezak, Hakim
Description: Marginal Mediterraneans France and the Maghreb: Literature, Cinema and Society In this seminar we will study migrations between France and the countries of the Maghreb (Morocco, Algeria and Tunisia), along with marginal(ized) communities and locales. The themes explored include marginality, detrriorialization, displacement and exile, and will concern literary and cinematic representations of recent migratory waves. New types of journeys will be seen, such as clandestine emigration, leisure travels, and the return of emigres and their families to the ?native land.? The journeys vary widely in nature and outcome?some are imagined and others are real, some failed and others triumphant but all present us with key questions for the region. What has been the impact of globalization in these parts of the Mediterranean world? What are the identity shifts in Maghrebi cultures and nations as well as among the Beurs? And how can the study of migrations and marginalization be broadened to include other host countries, such as Italy and Spain?

FREN 8260 Critical Issues: Theatre: Theater of Pain: Theories of Spectacle & Violence
3 credit(s), max credits 12, 4 repeats allowed; Instructor: Christophe M. Juliette
Description: Recent theories of corporeality and engagement have tested a number of overlapping concepts in order to understand the relationship between subjectivity and the social in art and culture. From a butlerian notion of performativity to the question of testimony and witnessing, the question of the physical rites and rituals that allow us to attend to human bodies, especially those to the ?native land.? The journeys vary widely in nature and outcome?some are imagined and others are real, some failed and others triumphant but all present us with key questions for the region. What has been the impact of globalization in these parts of the Mediterranean world? What are the identity shifts in Maghrebi cultures and nations as well as among the Beurs? And how can the study of migrations and marginalization be broadened to include other host countries, such as Italy and Spain?

FREN 8270 Critical Issues: Prose: Against the Grain: A History of French Contrarians
3 credit(s), max credits 12, 4 repeats allowed; Instructor: chaouat.bruno
Description: Imprecations against progress and the leveling of social conditions in the wake of the French Revolution and the rise of bourgeois democracy took root and flourished in nineteenth-century France. Contemporary critiques of ?Americanization,, globalization, the avant-garde, post-nationalism and multiculturalism are now carrying that baton. This course will examine a constellation of contrarian authors who write at the crossroads of literature, philosophy, pamphleteering and art history. These authors disagree on almost everything, but share nonetheless a pessimistic, at times apocalyptic, view of the (post)modern condition. Always herding the worst, some see them as the Cassandras of our times. ?I told you so,? they berate us. We will read a selection of texts by Joseph Maistre, Charles Baudelaire, J.-K.- Huysmans, Villiers de l?Isle-Adam, Georges Bernanos, Georges Duhamel, Martin Heidegger, Guy Debord, Emile Cioran, Alain Finkielkraut, and Jean-Francois Lyotard, among others, all of which reflect a reactive mood and a bilious disposition? all of which produce discourses of catastrophe and decline, and elaborate an internal, often radical critique of Western modernity and of its postmodern legacy.

FREN 8992 Directed Readings for Graduate Students
1-5 credit(s), max credits 25, 25 repeats allowed; prereq instr consent; Instructor: Sivert,Eileen B
Description: Student may contact the instructor or department for information.

FREN 8992 Directed Readings for Graduate Students
1-5 credit(s), max credits 25, 25 repeats allowed; prereq instr consent; Instructor: Wall-Romana, Christophe M
Description: Student may contact the instructor or department for information.

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 2501 or instr consent ; Credit will not be granted if credit has been received for: SW 3301; Instructor: Philibs, Anne Elizabeth
Description: Student may contact the instructor or department for information.

GLBT 3610 Topics in GLBT Studies: GLBT Literature: Queer Ways of Knowing
3 credit(s);
Instructor: Helt PhD,Brenda S
Description: GLBT Literature: Queer Ways of Knowing. In this course we will examine British and American works from the late nineteenth century to the present, focusing especially on important socio-historical moments in queer literary history:
late Victorian socialist and utopian experiments, the trials of Oscar Wilde in 1895, the burst of best-selling feminist modernist works featuring various queer themes and characters in interwar London, the obscenity trial of Radclyffe Hall's The Well of Loneliness in 1928, the post-WWII backlash against "homosexuals," Stonewall (1969) and the resulting early Gay Pride movement, the Civil Rights movement more generally, the AIDS epidemic, and the rise of poststructuralism and queer theory/politics. Additionally, we will pay attention to issues of literary innovation, asking how and why queer texts have long been considered among the most avant-garde of literary texts. How has queer literature impacted the overall development of literary cultures? What questions and challenges has it raised? What epistemologies are visible in it? What could be published (or produced on the stage) when, where, and why? What literary tropes and genres have been created specifically for the purpose of exploring queer issues? We will also seek to problematize contemporary theories of literary production that make simplistic and sometimes anachronistic distinctions between heteronormative literature and queer literature. By doing so, we may find the queer in the most seemingly normative of literary spaces and the heteronormative in texts purporting to radical queerness. We shall therefore prepare to be astounded.


GWSS 1002 Politics of Sex
4 credit(s); meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Sweet, Paige
Description: In this course we will examine the notion of ?sex? in its dual sense: in terms of its relation to gender and to sexuality. Throughout our investigations we will remain mindful to the ways that race, class, and other social markers and systems of power always influence the ways that sex is defined. We will focus on contemporary issues related to feminism and the politics of sex but texts that provide historical perspectives will be included as appropriate. We will ask how sex is defined in relation to various social institutions such as law, politics, family, science, and popular culture. Our goals will be to learn how and why feminists have studied the ?politics of sex,? analyze the multiple factors that create our ideas about sex, and pose critical questions about the ways that sex influences how we understand the norms that govern desire, community, kinship, and other social relations.

GWSS 1003W Women Write the World
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Katz, Judith
Description: How do women novelists, playwrights, poets and essayists world wide write about their own condition and the conditions of the people in the world around them? What do they tell us, and how, about issues of race, class, gender oppression and more? Looking at the work of women writers from around the globe, we will examine how reading and writing (published work and our own) can shape a vision of the world we live in and how writing is a form of social activism.
Style: 25% Lecture, 50% Discussion. in class writing
Grading: 75% reports/papers, 25% class participation.

GWSS 3003 Gender and Global Politics
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Jeong, Yeonbo
Description: Student may contact the instructor or department for information.

GWSS 3290 Topics: History and the Body
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Kunzel, Regina G
Description: Does the body have a history? The body's status as "natural" would seem to place it beyond the purview of historians. 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 addresses the body as a subject of history, paying particular attention to the constitution of the body in relation to historical configurations of sex, gender, and sexuality; race and ethnicity; notions of (dis)ability, normalcy, and fitness; the ethnographic display of bodies; body modification; and discipline and surveillance.
Style: 20% Lecture, 80% Discussion.
Grading: 50% reports/papers, 25% reflection paper, 25% class participation.

GWSS 3307 Feminist Film Studies
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Zita, Jacqulyn N
Description: WOMEN'S ROAD FILMS Rebel road movies and buddy movies are often films about men in the wilderness, on the team, at war or on the open road. This course will examine a genre of film that focuses on women's road films as well as films about non-normative bodies on road trips to freedom, love, adventure and community. Starting with classic road films, such as "Easy Rider" and "Bonnie and Clyde," our study will carry us to a collection of "other road" movies, such as "Thelma and Louise," "Leaving Normal," "Boys on the Side," "Motorcycle Diaries," "Set It Off," "TransAmerica," "PowWow Highway," "Searching for Angela Shelton," "Strawberry Fields," and others. By using tools from contemporary film and cultural theory, we will examine the dynamics of gender, race, sexuality and class "on the road," as well as complex relationships surrounding identity, home, abjection, desire and freedom.

GWSS 3307 Feminist Film Studies
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Giusti, Jessica
Description: WOMEN'S ROAD FILMS Rebel road movies and buddy movies are often films about men in the wilderness, on the team, at war or on the open road. This course will examine a genre of film that focuses on women's road films as well as films about non-normative bodies on road trips to freedom, love, adventure and community. Starting with classic road films, such as "Easy Rider" and "Bonnie and Clyde," our study will carry us to a collection of "other road" movies, such as "Thelma and Louise," "Leaving Normal," "Boys on the Side," "Motorcycle Diaries," "Set It Off," "TransAmerica," "PowWow Highway," "Searching for Angela Shelton," "Strawberry Fields," and others. By using tools from contemporary film and cultural theory, we will examine the dynamics of gender, race, sexuality and class "on the road," as well as complex relationships surrounding identity, home, abjection, desire and freedom.

GWSS 3307 Feminist Film Studies
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Giusti, Jessica
Description: WOMEN'S ROAD FILMS Rebel road movies and buddy movies are often films about men in the wilderness, on the team, at war or on the open road. This course will examine a genre of film that focuses on women's road films as well as films about non-normative bodies on road trips to freedom, love, adventure and community. Starting with classic road films, such as "Easy Rider" and "Bonnie and Clyde," our study will carry us to a collection of "other road" movies, such as "Thelma and Louise," "Leaving Normal," "Boys on the Side," "Motorcycle Diaries," "Set It Off," "TransAmerica," "PowWow Highway," "Searching for Angela Shelton," "Strawberry Fields," and others. By using tools from contemporary film and cultural theory, we will examine the dynamics of gender, race, sexuality and class "on the road," as well as complex relationships surrounding identity, home, abjection, desire and freedom.

3 credit(s), max credits 6;
Instructor: Raimist, Rachel
Description: This course will engage theories and practices of feminist media making. We will investigate historical and
contemporary works, and produce our own media. Focusing on film, video, photography, audio and web-based media content, we will consider feminist film making, alternative/counter media, digital storytelling, vlogging, and Internet based media to examine the politics and practices of representations, Internet gender identity, and the social constructions of technology. We will consider feminist uses of technology for creative, social, and political work, and will construct new cultural productions—e.g., create a photo essay, make a video, produce a podcast, or post a videoblog (vlog). Technical instruction in photography, video production, editing, blogging, podcasting, web design and other multimedia tools will be provided—no experience necessary!

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

**Grading:** 25% reports/papers, 30% special projects, 15% quizzes, 5% attendance, 10% reflection paper, 5% in-class presentation, 10% class participation.

GWSS 3403W Jewish Women in the United States
3 credit(s); Credit will not be granted if credit has been received for: JWST 3632W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

**Instructor:** Prell, Riv-Ellen

**Description:**

GWSS 3406 Gender, Labor, and Politics
3 credit(s);

**Instructor:** Bora, Papori

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

GWSS 3408 Women in Modern America
3 credit(s); Credit will not be granted if credit has been received for: HIST 3348; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

**Instructor:** Evans, Sara M

**Description:** This course on the history of American women since 1890 will be a combination of lecture and discussion. We cover a series of dramatic changes in images of women (Gibson girl, flapper, suburban Mom, feminist...) and link them to changes in women's experiences in the family, the labor force, sexuality, and broader shifts in American culture. Students will write a series of brief papers based on the reading and one longer (5-8 pp) paper based on a bit of research. There will be a final exam but no mid-term.

GWSS 3490 Topics: Political Economy and Global Studies: Transnational Migration: Networks, People & Places
3 credit(s), max credits 6;

**Instructor:** Abdi, 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 transnationalization.

**Style:** 50% Lecture, 25% Film/Video, 25% Discussion.

**Grading:** 30% mid exam, 30% final exam, 30% reports/papers, 10% in-class presentation.

GWSS 4108W Senior Seminar: Writing
3 credit(s); prereq WoSt [ jr or sr]; Meets CLE req of Writing Intensive;

**Instructor:** Myrdahl, Eileen Muller

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

GWSS 4402 Rebels, Radicals, and Revolutionaries: History of Western Feminisms
3 credit(s), max credits 4, 1 repeat allowed;

**Instructor:** Puotinen, Sara Lynne

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

GWSS 4403 Queering Theory
3 credit(s); prereq 1002 or 3102 or instr consent;

**Instructor:** Brewington, 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);

**Instructor:** Isoke PhD, Zenzele

**Description:** This is an interdisciplinary course that critically examines the activism 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 5690 Topics: Women, Society, and Race in the United States: Space, Identity and Agency in Urban America
3 credit(s), max credits 6;

**Instructor:** Isoke PhD, Zenzele

**Description:** This is an interdisciplinary course that critically examines the activism 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 5790 Topics: Sexuality Studies: Space, Time, and Histories of Sexuality in the U.S
3 credit(s), max credits 6;

**Instructor:** Kunzel, Regina G

**Description:** Temporality and space, and their sometimes vexed relationship, have emerged as two primary concerns in histories of sexuality. This graduate seminar explores the history of sexuality through the lenses of these large themes. While most of our readings will focus on the U.S., we will consider comparative and transnational histories as well. Among the
topics we will consider are definitions of sexual modernity and alternative modernities; rural and urban sexualities; race, class, and geographies of sexual danger; sexualized tourist economies; surveillance and carceral space; transnational circuits; empire and colonial space; borders and borderlands; public and private space; and space and memorialization.

GWSS 8108 Feminist Theories and Methods I
3 credit(s); prereq Feminist studies PhD or grad minor student or instr consent
Instructor: Zita, Jacquelyn N
Description: Two-semester interdisciplinary seminar. First term: current debates in gender theory; intersections of gender theory with critical race theory, post-colonial theory, sexuality theory, and social class analysis. Second term: inter-/multi-disciplinary feminist research frameworks/methodologies from humanities and social sciences. 8108 is the first in the two-semester seminars.

GWSS 8490 Topics: Comparative and Global Studies: Feminist Approaches to Iberian & LA Literary Texts
1-3 credit(s), max credits 3, 1 repeat allowed
Instructor: Kaminsky, Amy K
Description: Feminist Approaches to Iberian and Latin American Literary Texts. We will consider a variety of inter- and multidisciplinary approaches to literary texts authored by women from Spain and Latin America by reading theoretical feminist work in a variety of disciplines side by side with literary texts and critical analyses of those texts. We will examine how ideas generated in fields as disparate as geography, philosophy, critical race theory, and sexuality studies are deployed, challenged, read, and fruitfully misread in relation to writing by such authors as Maria de Zayas, Cristina Peri Rossi, Angelica Gorodischer, Elena Garro, and others. Prospective students are encouraged to email Professor Kaminsky (kamin001@umn.edu) by Nov. 15 if there are authors or texts that they'd like to read in the seminar. Please make sure that all suggested texts are available in English translation. All the literary texts will be available in both English and Spanish or Portuguese; the vast majority of the critical and theoretical works appear only in English. The grade will be determined by participation in seminar discussions, presentations of course material, and a seminar paper.

GWSS 8996 Feminist Studies Colloquium
S-N only, 1 credit(s), max credits 4, 4 repeats allowed; prereq Grad student
Instructor: Scheman, Naomi
Description: Student may contact the instructor or department for information.

GWSS 8997 Feminist Research and Writing
3 credit(s); prereq 8109, passed written prelims in degree granting program
Instructor: Albright, Lisa D
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 10, 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); prereq Biol 1002 or 1009; not for biology majors; 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); prereq 3022 or Biol 4003 or BioC 4332
Instructor: Franco PhD, Peter John
Description: Student may contact the instructor or department for information.

GCD 4015 Genetics Laboratory
2 credit(s); prereq 3022 or Biol 4003 or BioC 4332
Instructor: Merriman PhD, Peter Jason
Description: Student may contact the instructor or department for information.

GCD 4025 Cell Biology Laboratory
2 credit(s); prereq Biol 4004 or instr consent
Instructor: Norrander PhD, Jan Marie
Description: Student may contact the instructor or department for information.

GCD 4025 Cell Biology Laboratory
2 credit(s); prereq Biol 4004 or instr consent
Instructor: Norrander PhD, Jan Marie
Description: Student may contact the instructor or department for information.
GCD 4034 Molecular Genetics
3 credit(s); prereq 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" (third 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); prereq 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); prereq 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 4143 Human Genetics
3 credit(s); prereq 3022 or Biol 4003 or instr consent;
Instructor: Getting, 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 4793W Directed Studies: Writing Intensive
S-N only, 1-7 credit(s), max credits 7, 7 repeats allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Drasin, Becky
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: Hebbel, Robert Peter
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: Van Ness, Brian George
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: McIvor, R Scott
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: 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: Largaespada, David Andrew
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: Steer, Clifford John
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: Schimmenti, Lisa 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: Hebbel, Robert Peter
Description: Student may contact the instructor or department for information.
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: Downs Jr,Levi S
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: Fallon,Ann M
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: Simmons,Michael J
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: Shimizu,Yoji
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: Brooker,Robert 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: Gregerson,Dale S
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: De Larco,Joseph Edward
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: Kuriyama,Ryoko
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: Rougvie,Ann E
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: Thayer,Stanley 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: Hall,Jennifer L
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: Ward,John M
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: Marchant,Jonathan S
Description: Student may contact the instructor or department
for information.
GCD 4994 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: Zhou, Xianzheng
Description: Student may contact the instructor or department for information.

GCD 4994 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: Zirpel, Lance
Description: Student may contact the instructor or department for information.

GCD 4994 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: Taylor, PhD, Doris
Description: Student may contact the instructor or department for information.

GCD 4994 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: Otter, Harald
Description: Student may contact the instructor or department for information.

GCD 4994 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: Greenstein, David I.
Description: Student may contact the instructor or department for information.

GCD 4994 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: Yamamoto, Masato
Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research
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 4994 Directed Research
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: Schimmenti, MD, Lisa A
Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research
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: Knoblach, Sue
Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research
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: Patterson, DVM, Ned
Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research
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: Bendel-Stenzel, Michael R
Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research
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: Tong, Cindy Bow San
Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research
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: Anderson, James Allan
Description: Student may contact the instructor or department for information.
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<th>Course Code</th>
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<th>Credit Hours</th>
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</tbody>
</table>

For information, please contact the instructor or department.
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent;
Instructor: Greenstein, David I.
Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent;
Instructor: Slack, Jonathan M W
Description: Student may contact the instructor or department for information.

GCD 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent, dept consent;
Instructor: Subramaniam PhD, Subree
Description: Student may contact the instructor or department for information.

GCD 8008 Mammalian Gene Transfer and Expression
A-F only, 2 credit(s); prereq instr consent;
Instructor: Largaespada, David Andrew
Description: Student may contact the instructor or department for information.

GCD 8073 Advanced Human Genetics
3 credit(s); prereq 8121 or instr consent;
Instructor: Koob, Michael D
Description: Student may contact the instructor or department for information.

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: LeRoy, Bonnie S
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 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.

Geographic Information Science
414 Social Science Building

GIS 5572 Advanced Arc/Info
3 credit(s); prereq 5571, 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% midterm exam, 40% final exam, 20% problem solving.
Exam Format: Multiple choice

GIS 5578 GIS Programming
3 credit(s); prereq MGIS student or instr consent;
Instructor: Loesch, 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.

This information is accurate as of 9/15/2008 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.
GEOG 1403 Biogeography of the Global Garden
4 credit(s); Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme; 
Instructor: Sheppard,Eric
Description: GEG 1403 Biogeography of the Global Garden is an introductory course to biogeography, the study of the distribution and diversity of plants and animals on Earth. The course is designed to introduce students to the concepts and methods used in biogeography, including the study of the spatial and temporal patterns of biodiversity and the factors that influence these patterns. 

GEOG 1403H Honors: Biogeography of the Global Garden
4 credit(s); prereq Honors; Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme; 
Instructor: Kipfmueller,Kurt Foster
Description: This course is an honors-level introduction to biogeography, focusing on the distribution and diversity of plants and animals on Earth. The course will explore the factors that influence these patterns and will emphasize critical thinking and problem-solving skills. 

GEOG 1425 Introduction to Meteorology
4 credit(s); prereq 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: This course is an introduction to the basic principles of meteorology, focusing on the study of atmospheric processes and the weather systems that result from these processes. The course will emphasize the application of these principles to real-world weather forecasting and climate change. 

GEOG 1425 Introduction to Meteorology
4 credit(s); prereq 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: Millet,Dylan Baird
Description: This course is an introduction to the basic principles of meteorology, focusing on the study of atmospheric processes and the weather systems that result from these processes. The course will emphasize the application of these principles to real-world weather forecasting and climate change. 

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for information.

GEOG 1502 Mapping Our World
4 credit(s); Meets CLE req of Mathematical Thinking Core;
Instructor: McMaster,Susanna Akiko
Description: Are you fascinated by maps, Google Earth and
global positioning systems? Want to know more about how maps
and the real world are related? Want to learn how maps are
made and used to analyze places and solve problems? Maps
are very effective for communicating spatial information such as
where phenomena are located and how to get from one place to
another. This course introduces you to the world of maps and its
mathematical foundation. Lectures provide you with knowledge
of mapping principles and how maps and mapping relate to
society, as well as methods of map use including interpreting
aerial photos and satellite images. The labs allow you to gain
hands-on experience using maps and performing basic mapping
tasks. Successful completion of this course will equip you with
basic skills to design, read and use maps and other graphics. It
will also give you a good start to learning more about the field
of geographic information science, an area with growing career
opportunities!
Style: 75% Lecture, 25% Laboratory.
Grading: See course syllabus for evaluation details
Exam Format: Multiple choice

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. Emphasis on 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 3355 Environmental Quality
3 credit(s); Meets CLE req of Citizenship/Publi Ethics Theme;
meets CLE req of Environment Theme;
Instructor: Squires,Roderick H
Description: The course, which is illustrative rather than
comprehensive, concerns federal policy regarding the
production, use, and disposal of chemicals. Subtitled "Better
Living through Chemistry?", it will ask the question "What controls
the production, use, and disposal of thousands of chemicals
used in food, drugs, and a wide variety of other consumer
products, that are generally regarded as safe?&quote;
Style: 50% Lecture, 50% Laboratory.
Grading: 100% reports/papers.

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: Henderson,George Lawlor
Description: This course is about how structures of class,
race/ethnicity, gender, and sexuality combine to produce
varieties of urban experience in the United States. The course
will also deal with why the city--why urbanization as a distinctive
process--shapes those social structures in particular ways. The
course centers especially on the city as a crucial locus for
capitalism and on capitalism as irrevocably a socially made and
contested process. It is a hallmark of capitalism that it leads not
only to the making of different kinds of urban environments and
histories. It also relies upon and fosters social differences.
Through discussion, lecture, case study readings (including two
books and a variety of articles), and group projects we will try to
come to a more layered understanding of what makes the
American city tick.
Style: 50% Lecture, 50% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers.
GEOG 3374W The City in Film
4 credit(s); Credit will not be granted if credit has been received for: GEOG 5374W; 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 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 3379 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: 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. Blaike; Dharam Ghai; David Harvey. Intended audience: Social and natural science undergraduates.
Style: 65% Lecture, 35% Discussion.
Grading: 20% final exam, 30% reports/papers, 25% written homework, 20% additional semester exams, 5% class participation.
Exam Format: essay.

GEOG 3381W 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: Muller Myrdahl, Tiffany
Description: The aim of this course is to provide students with a basic understanding of and appreciation for human population phenomena and problems in an increasingly interdependent world. This will involve an investigation of patterns and trends in fertility, mortality and migration of human populations in different parts of the world and an examination of how these are both shaped by, and engender economic, political, cultural and environmental change. Throughout the course, particular attention is paid to: 1) contemporary population problems at the global, national and local scale, including the world population explosion, high levels of fertility in parts of the less developed world, record-low fertility and population ageing in industrialized countries, the HIV/AIDS pandemic and major world health problems, increasing levels of international migration, refugee crises, massive rural to urban migrations in the less developed world; 2) policies adopted to address these problems such as family planning policies to reduce fertility levels and migration policies; and 3) the gender dimension of contemporary population problems and policies, including women’s reproductive health and rights. In addition, this course will introduce students to various population theories, basic sources and measures for the study of population dynamics, and allow them to gain basic skills and experience in data analysis, interpretation, writing research reports and oral presentations.

GEOG 3401 Geography of Environmental Systems and Global Change
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: GEOG 5401;
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 climate 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: 20% final exam, 30% reports/papers, 25% written homework, 20% additional semester exams, 5% class participation.
Exam Format: essay.

GEOG 3511 Principles of Cartography
4 credit(s); prereq 3 cr in geog or instr consent;
Instructor: Lindberg, Mark B
Description: Student may contact the instructor or department for information.

GEOG 3900 Topics in Geography
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Till, Karen E
Description: How do individuals and social groups actively shape understandings of the past and give form to their desires for the future through places, landscapes and environments? By looking at particular case studies in different parts of the world.

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this class considers how different societies at distinct moments in time spatially construct and negotiate national and local histories through geographies of memory. Cultural memory is an inherently spatial process whereby individuals and groups map stories and myths about themselves and the past onto and through places, natures and public spaces to establish a sense of identity. Museums and memorials have historically been built as official places of memory, but even in such traditional places, the pasts remembered at these locales are open to multiple interpretations. Beginning roughly in the late 1970s, many citizen groups began to challenge what they considered ?forgetful? national histories by creating alternative places of memory, such as the Topography of Terror Documentation Center in Berlin or the District Six Museum in Cape Town. Public artists also create site-specific and socially inclusive designs to encourage visitors to address their problematic pasts. Throughout the class, we will consider theories about place making, politics, public engagement, and memory by consider particular case studies. The case studies will also explore the tensions, contradictions, and moral dilemmas of the contemporary world ? a world now structured by economies of late capitalism, a geopolitical system of nation-states connected by transnational partnerships (such as the EU, NATO, UN peace keeping forces), and, a world, following the tragedy of September 11, 2001, in the wake of ongoing wars, is divided by real and imagined fears of terrorism. In particular, we will spend time discussing cities ?wounded? by particularly violent histories, including London, Hiroshima, Berlin, Cape Town, Buenos Aires, Moscow, Dublin, Mostar, New Orleans, New York, and Minneapolis. We will also discuss the politics of traditional and alternative cultural practices of memory in many countries and types of environments, including: commemorative ceremonies; memorials and monuments; exhibitions; popular and scholarly representations of the past (film, books); creative urban encounters (public art and architecture); everyday geographies; and tourism. Style: 40% Lecture, 10% Film/Video, 15% Discussion, 10% Small Group Activities, 5% Student Presentation, 10% Guest Speakers, 10% Service Learning. Special class events will be coordinated with visiting artists and other classes.

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 Perspect 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 climate 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: 50% Lecture, 25% Discussion, 25% Laboratory. Grading: 20% final exam, 25% reports/papers, 25% quizzes, 5% class participation, 25% laboratory evaluation. Exam Format: essay

GEOG 5511 Advanced Cartography 3 credit(s); prereq 3511 or instr consent; Instructor: Lindberg, Mark B Description: Student may contact the instructor or department for information.

GEOG 5563 Advanced Geographic Information Science 3 credit(s); prereq B or better in 5561 or 5561 or instr consent; Instructor: Harvey, Francis
GEOG 5900 Topics in Geography
3 credit(s), max credits 9; 3 repeats allowed; prereq sr or grad, instr consent;
Instructor: Till,Karen E
Description: How do individuals and social groups actively shape understandings of the past and give form to their desires for the future through places, landscapes and environments? By looking at particular case studies in different parts of the world, this class considers how different societies at distinct moments in time spatially construct and negotiate national and local histories through geographies of memory. Cultural memory is an inherently spatial process whereby individuals and groups map stories and myths about themselves and the past onto and through places, natures and public spaces to establish a sense of identity. Museums and memorials have historically been built as official places of memory, but even in such traditional places, the pasts remembered at these locales are open to multiple interpretations. Beginning roughly in the late 1970s, many citizen groups began to challenge what they considered ?forgetful? national histories by creating alternative places of memory, such as the Topography of Terror Documentation Center in Berlin or the District Six Museum in Cape Town. Public artists also create site-specific and socially inclusive designs to encourage visitors to address their problematic pasts. Throughout the class, we will consider theories about place making, politics, public engagement, and memory by consider particular case studies. The case studies will also explore the tensions, contradictions, and moral dilemmas of the contemporary world ? a world now structured by economies of late capitalism, a geopolitical system of nation-states connected by transnational partnerships (such as the EU, NATO, UN peace keeping forces), and, a world, following the tragedy of September 11, 2001, and in the wake of ongoing wars, is divided by real and imagined fears of terrorism. In particular, we will spend time discussing cities ?wounded? by particularly violent histories, including London, Hiroshima, Berlin, Cape Town, Buenos Aires, Moscow, Dublin, Mostar, New Orleans, New York, and Minneapolis. We will also discuss the politics of traditional and alternative cultural practices of memory in many countries and types of environments, including: commemorative ceremonies; memorials and monuments; exhibitions; popular and scholarly representations of the past (film, books); creative urban encounters (public art and architecture); everyday geographies; and tourism.
Style: 40% Lecture, 10% Film/Video, 15% Discussion, 10% Small Group Activities, 5% Student Presentation, 10% Guest Speakers, 10% Service Learning. Special class events will be coordinated with visiting artists and other classes.

GEOG 8002 Research Methods in Geography
3 credit(s);
Instructor: Leitner,Helga
Description: Student may contact the instructor or department for information.

GEOG 8230 Theoretical Geography
3 credit(s); prereq instr consent;
Instructor: Henderson,George Lawlor
Description: Student may contact the instructor or department for information.

GEOG 8291 Seminar in GIS, Technology, and Society
3 credit(s); prereq instr 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: 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: Leitner,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: Mc Master PhD,Robert 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: 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,Roderick H
Description: Student may contact the instructor or department for information.

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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: Tilk, 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 Krishn
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 Aiko
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: Kipfmueller, Kurt Foster
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 8980 Topics in Geography

Description: Geography 8980: Memory Traces ?the traces of the storyteller cling to the story the way the handprints of the potter cling to the clay vessel? (Walter Benjamin) Archives, photographs, mappings, archaeological digs, crime scenes, sketches, ruins, bodies, silences, places. How might we theorize the afterlives and effects of experiences, perceptions and events? How are residual marks created, left, collected, located and remembered? Do all traces acquire meaning through acts of discovery and relocation? This advanced graduate seminar explores theories of and discussions about memory ? from Freud?s mystic writing pad to Bergson?s notion of duration; from Derrida?s ruins and hauntologies to Ricouer?s constructive forgetting? by paying attention to residuals, remainders and traces. We will also explore these concepts through artistic performances and activist interventions. Course texts include: Derrida?s Memoirs of the Blind: The Self-Portrait and Other Ruins; Charles Merewether?s edited reader, The Archive (from the Documents of Contemporary Art Series); Henri Bergson?s Matter and Memory; Paul Ricouer?s History, Memory, Forgetting; and Mike Pearson and Michael Shanks, Theatre/Archaeology.
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: Wells, 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: Shepard, Eric  
Description: Student may contact the instructor or department for information.

GEO 4102W Capstone Design  
1-5 credit(s), max credits 10; prereq dept consent;  
Instructor: Squires, Roderick H  
Description: Student may contact the instructor or department for information.

GEO 4102W Capstone Design  
1-5 credit(s), max credits 10; prereq dept consent;  
Instructor: Labuz, Joseph F  
Description: Student may contact the instructor or department for information.

GEO 4102W Capstone Design  
1-5 credit(s), max credits 10; prereq dept consent;  
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.

GEOE 4301 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 4301 Soil Mechanics I  
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: Student may contact the instructor or department for information.

GEOE 4301 Soil Mechanics II  
A-F only, 3 credit(s); prereq Upper division student in IT; CE 3301, CE 3301, or instr consent; Credit will not be granted if credit has been received for: CE 4301;  
Instructor: Labuz, Joseph F  
Description: Student may contact the instructor or department for information.

GEOE 4311 Rock Mechanics  
A-F only, 4 credit(s); prereq [[3301 or CE 3301], upper div or grad student in IT] or instr consent;  
Instructor: Carranza-Torres, Carlos M  
Description: Student may contact the instructor or department for information.

GEOE 4352 Groundwater Modeling  
A-F only, 3 credit(s); prereq upper division or grad student in IT, CE 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.
Description: Student may contact the instructor or department for information.

GEOE 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: Labuz, Joseph F
Description: Student may contact the instructor or department for information.

GEOE 8361 Engineering Model Fitting
A-F only, 3 credit(s); prereq IT grad student or instr consent; Credit will not be granted if credit has been received for: CE 8361;
Instructor: Barnes, Randal J
Description: Student may contact the instructor or department for information.

Geology and Geophysics
106 Pillsbury Hall

GEO 1001 Earth and Its Environments
4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Moskowitz, Bruce Matthew
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, 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
Final: Multiple choice only.

GEO 1001 Earth and Its Environments
4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Kirby, 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, 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
Final: Multiple choice only.

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: Kirby, 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

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 PitliDOWN man controversy centers around the application of quantitative laboratory methods to accurately determine ages of fossil remains. All three demonstrate how people 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:** Kirby, Kent Charles

**Description:** Style: 95% Lecture. Video

### 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:** Hudleston, Peter John

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

### GEO 1105 Geology and Cinema

3 credit(s); Credit will not be granted if credit has been received for: GEO 1005;

**Instructor:** Reavenagh, Justin

**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 diopsite? 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 Geochronology and Earth History

3 credit(s); prereq 2303;

**Instructor:** Runkel, Anthony C

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

### GEO 3880 Laboratory Workshop

1 credit(s), max credits 2; prereq Geo or Geophys or GeoEng major or instr consent;

**Instructor:** Myrbo, Amy Eianor

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

### GEO 3880 Laboratory Workshop

1 credit(s), max credits 2; prereq Geo or Geophys or GeoEng major or instr consent;

**Instructor:** Hirschmann, Marc M

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

### GEO 3880 Laboratory Workshop

1 credit(s), max credits 2; prereq Geo or Geophys or GeoEng major or instr consent;

**Instructor:** Hirschmann, Marc M

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

### GEO 3890 Field Workshop

1 credit(s), max credits 2; prereq Geo or Geophys or GeoEng major or instr consent;

**Instructor:** Fayon, Anna

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

### GEO 3890 Field Workshop

1 credit(s), max credits 2; prereq Geo or Geophys or GeoEng major or instr consent;

**Instructor:** Fox, David L

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

### GEO 3890 Field Workshop

1 credit(s), max credits 2; prereq Geo or Geophys or GeoEng major or instr consent;

**Instructor:** Fox, David L

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

### GEO 4103W Fossil Record of Mammals

A-F only, 3 credit(s); Meets CLE req of Writing Intensive;

**Instructor:** Fox, David L

**Description:** Student may contact the instructor or department for information.
GEQ 4212 Solid Earth Geophysics II
A-F only, 3 credit(s); prereq 2201, Phys 1302; Instructor: Yuen, David A
Description: Student may contact the instructor or department for information.

GEQ 4402 Biogeochemical Cycles in the Ocean
3 credit(s); prereq [Chem 3501, 1 yr of calculus] or instr consent; Instructor: Matsumoto, Katsumi
Description: In recent decades, oceans have taken up roughly 30% of the CO2 emitted to the atmosphere by human activities. This capacity will diminish in the future though, as the oceans' CO2-buffering capacity is reduced and they become more acidic. Despite this expected decline, the sheer size of the ocean carbon reservoir means that oceans will remain the ultimate sink for much of our anthropogenic CO2 over the next few centuries. Oceans not only play a key role in controlling atmospheric CO2 content today, but also were critical factors in global carbon cycling throughout Earth's history. This course will examine the ocean carbon cycle and its more important controlling processes, such as ocean circulation (physics), primary production and degradation of organic matter (biology), CO2 acid-base reactions (chemistry), and continental weathering and marine sedimentation (geology). The course begins with an examination of ocean physics, including Ekman dynamics, western boundary current, gyre circulation, stratification, intermediate- and deep-water formation, and global thermohaline circulation. Observations of tracers, such as radiocarbon and CFCs whose distribution reflects ocean dynamics will be used to complement the class? theoretical discussion. We will then consider some aspects of marine biology, such as mechanisms of seasonal bloom, dependence of surface ocean production on nutrients and temperature, and the export of organic matter to the deep ocean. Satellite images and measurements of oxygen, phosphorus, and nitrogen will be used to illustrate these processes and elucidate the spatial and temporal patterns of primary production. The class will move on to an examination of CO2 chemistry in seawater and air-sea gas exchange, including concepts of solubility and chemical and isotopic equilibrium concentrations. 'Bomb' radiocarbon, produced by thermonuclear bomb testing in the 1950-1960s, will be used to constrain the global rate of air-sea gas exchange. To gain a geological perspective on global carbon cycle change, we also consider how long term processes, such as weathering of continental silicate rocks and carbonate sedimentation, help control atmospheric CO2 levels. With this cumulative understanding, the course will conclude by addressing global issues, such as the fate of fossil fuel CO2, glacial-interglacial atmospheric CO2 variations, and CO2-temperature negative feedback mechanisms that may have maintained liquid water over billions of years during which the energy output of the Sun has increased.

Style: 80% Lecture, 20% Discussion.
Grading: 40% final exam, 60% written homework.

GEQ 4502 Tectonic Styles
3 credit(s); prereq 4501 or instr consent; Instructor: Hudleston, Peter John
Description: This course examines how structures are associated in space and time within the various tectonic zones of the crust. Characteristic associations of structures are found at specific locations along tectonic plate boundaries and within plate interiors. They can be used to reconstruct tectonic history through time. The first part of the course examines regimes in which convergent plate motion is dominant. We start with classic orogenic belts, including the Alps, the Appalachians, the Caledonide Mountains of Europe and the Rockies. These have low metamorphic grade, fold-and-thrust belts in their external parts and mobilized, high deformation, high metamorphic grade internal parts. Ancient orogenic belts of Archean age show some similarities and some differences with this pattern. The second part of the course examines structures found where plate motion is dominantly lateral, leading to strike-slip faulting. The third part deals with plate motions that are dominantly divergent, leading to rift zones and, with extreme rifting, metamorphic core complexes. The fourth part looks at specialized regimes that occur within either convergent or divergent plate settings: these include accretionary prisms, salt diapirism and granite emplacement.

GEQ 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]; Instructor: Kleinsepp, Karen L
Description: Student may contact the instructor or department for information.

GEQ 5108 Principles of Environmental Geology
3 credit(s); prereq Geology majors: core curriculum through 4501 or instr consent; nonmajors: 1001 or instr consent; Instructor: Pfannkuche, 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

GEQ 5203 Mineral and Rock Physics
3 credit(s); prereq 2201, Phys 1302; Instructor: Kohlstedt, David L
Description: Student may contact the instructor or department for information.

GEQ 5351 Geochemical Modeling of Aqueous Systems
3 credit(s); prereq 4401; Instructor: Seyfried Jr, William E
Description: Student may contact the instructor or department for information.

GEQ 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 students 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 both lectures and labs. This course is not mathematically based; there will be no weekly problem sets. 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. The only prerequisites are one year of physics and/or chemistry or instructor consent.

Coursework in geology is helpful but not required -- students
from Physics, Materials Science, Archaeology, and other departments have successfully completed this course.

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

**Grading:** 20% mid exam, 10% special projects, 20% quizzes, 5% class participation, 20% laboratory evaluation.

**Exam Format:** Multiple choice, short answer, essay, diagrams; few or no mathematical problems.

**GEO 5701 General Hydrogeology**

3 credit(s); prereq Chem 1022, Math 1271; Phys 1201, Geo majors-core curriculum through 2402 or instr consent;

**Instructor:** Pfannkuch,Hans-Olaf

**Description:** This introductory hydrogeology course provides an overview (and some selected more in-depth coverage) of the broad and environmentally important subject of groundwater science. Approximately 97% of the world's supply of unfrozen (drinking and irrigation) water is groundwater. The course consists of a lecture and a laboratory portion and typically includes field trips and/or a field pumping test exercise at the Department's hydrogeology field camp site in north-central MN. Topics that are covered range from physical over chemical to numerical hydrogeology and typically include: hydrologic cycle, aquifer characteristics, Darcy's Law, steady state and transient flow, permeability and hydraulic conductivity, water table analysis, basics of (some) groundwater flow equations, groundwater in glacial deposits, aquifer testing (pump tests), water properties, (some) aqueous geochemistry, carbonate chemistry, sorption, transport and fate of solutes, karst and fracture flow, water sampling methods, isotopes in hydrology, regional unconfined flow, surveying, numerical modeling of groundwater flow, hydrograph analysis, exploration and drilling, contaminant hydrology, and groundwater management.

**Style:** 50% Lecture, 35% Laboratory; field trip/exercises

**Grading:** 30% mid exam, 35% final exam, 35% laboratory evaluation.

**Exam Format:** short answers

**GEO 5705 Limnogeology and Paleoenvironment**

3 credit(s); prereq instr consent;

**Instructor:** Ito,Emi

**Description:** Study of within-lake, hydrogeologic and landscape (geological and biological) processes that lead to the formation of various proxy records of paleoenvironment. Physical, geochemical, biogeochemical, and biotic proxies and how they relate to each other will be examined using a systems approach. Includes a general discussion of basic principles as well as specific case studies. Some emphasis will be placed on how various records relate to paleoclimate. Each student will be responsible for leading the discussion of one case study and providing a written summary. The reading material will be drawn from various sources in the primary literature.

**GEO 6354 Igneous Petrology**

3 credit(s); prereq 4301 or instr consent;

**Instructor:** Hirschmann,Mark M

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

**GEO 8980 Seminar: Current Topics in Geology and Geophysics**

S-N only, 1 credit(s), max credits 30, 30 repeats allowed; prereq instr consent;

**Instructor:** Matsumoto,Katsumi

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

**GEO 8980 Seminar: Current Topics in Geology and Geophysics**

S-N only, 2-3 credit(s), max credits 30, 30 repeats allowed; prereq instr consent;

**Instructor:** Gebelin,Aude Marie Louise

**Description:** Influence of melt on deep crustal deformation The origin and evolution of the continental crust pose intriguing questions regarding the feedback mechanisms between deformation and melt generation. Current research is documenting the influence of melt on the rheology and deformation of the continental crust. Within this course, we will address questions on how or even if magma rheology localises crustal deformation or inversely, how or if lithosphere deformation triggers magma formation and ascent. To answer these questions we will examine in more details the recording of P-T-t-Strain-Strike conditions by deep crust rocks in different geological setting. We will try to understand the changes in crustal rheology focusing on the generation and presence of partial melts, the pore pressure change associated with melt production, and its influence on deformation and strain rates.

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

**GEO 8994 Research in Geology and Geophysics**

1-4 credit(s); max credits 30, 30 repeats allowed; prereq instr consent;

**Instructor:** Kohlstedt,David L

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

**GER 7100 Oral Health Services for Older Adults Seminar**

2 credit(s);

**Instructor:** Shuman,Stephen K

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

**GER 7200 Advanced Clinical Geriatric Dentistry**

A-F only, 1-10 credit(s), max credits 10, 1 repeat allowed;

**Instructor:** Shuman,Stephen K

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

**GER 7210 Geriatric Hospital Dentistry**

1-6 credit(s), max credits 6, 1 repeat allowed;

**Instructor:** Olstehage,John Charles

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

**German**

**205 Folwell Hall**

**GER 3012W Conversation and Composition**

3 credit(s); prereq 3011; Meets CLE req of Writing Intensive;

**Instructor:** Baker,ERIC

**Description:** Advanced Conversation and Composition: Detective Fiction and Literary Reading The genre of the detective- or crime-story marks an obsession in the American entertainment industry, only recently eclipsed by the bizarre popularity of so-called 'reality-tv'. As a genre, the detective story combines two readerly positions, that of identificatory suspense, where the reader is sucked in, as it were, by the thrill of the 'who dunnit'; and another, quite different, critical-analytic position, which is rather distanced, like that of the sleuth himself. This course will look at how this polarity of nearness or participation and the distance of analysis, informs classic works of the genre. The course will supplement readings of narratives by Edgar Allan Poe and Arthur Conan Doyle with classic works of Kleist, Schiller, E.T.A. Hoffmann, Droste-Hulshoff, and Friedrich Durrenmatt to the more contemporary fiction of Wolf Haas, Jakob Arjouni, and Birgit Vanderbeke. Requirements: enjoyment of detective stories.

**GER 3014 Research in Geology and Geophysics**

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 repertoires constitute 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); prerequisite 3011 or equivalent;
Instructor: Ianeva-Lockney, Arsena
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 3510 Topics in German Studies: Was uns bewegt: Concerns & Issues in Germany
3 credit(s), max credits 9, 3 repeats allowed; prerequisite 3011;
Instructor: Weiss, Friederike
Description: Ideas, issues and controversies in contemporary German culture. The course examines issues that different generations in Germany are currently concerned with. These include changes in the educational system due to the Pisa Studie? as well as the efforts to reform higher education, relationships between East and West Germans, unemployment and changes in the welfare system, efforts to come to terms with the history of the National Socialism, immigration and multiculturalism and Germany?ageing population. Students will work with a range of texts, from newspaper articles, stories, surveys to films as well as interviews and television clips. Students will respond to the texts, films and audio materials in informal conversations, discussions, presentations and written response papers. They will compile their work, do further research on the topics chosen and present the results in a research paper or a multimedia project: film, artwork, website).

GER 3512W German Civilization and Culture: 1700 to the Present
3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Gaius Andreae
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. To quote a famous example, in a series of highly influential essays written during WW I, Thomas Mann argued that the spiritual orientations of German Kultur stood in opposition to the materialistic tendencies of Western (France, England) Civilization. For Mann, then, being properly German meant to reverence Goethe and dislike democracy, to revere Romantic poems and abhor industrialization. Using Mann?s highly questionable discussion, which he himself criticized shortly after the war, as both a guiding thread and a cautionary tale, we will explore German history of the last 300 years in view of its own definitions of ?culture? and ?civilizations? and thus, as we will see, in terms of its often troubled relationship to modernity and modernization. Required reading: Mary Fulbrook: A Concise History of Germany. Cambridge: Cambridge UP, 2004.
Style: 50% Lecture, 35% Discussion, 15% Small Group Activities.

GER 3531 Selected Readings in German Intellectual History
3 credit(s); prerequisite 3011;
Instructor: Schulte-Sasse, Jochen
Description: Description: Selected close readings and discussions of articles or book excerpts that played a prominent role in German intellectual history from the late 18th century to the present. The class is cross-listed with CSCL. Classroom discussions are therefore in English. However, there will be two course packs, one in German and one in English. Students registering through German are expected to read the course material in the original language. Authors and texts included are listed below: Immanuel Kant, Idea for a Universal History from a Cosmopolitan Point of View (1784) Immanuel Kant, What is Enlightenment? (1784) The Old and the Systematic Program of German Idealism (1796) Nietzsche, On the Genealogy of Morality (1798) Friedrich Schlegel, On Incomprehensibility (1800) Friedrich Schlegel, Concerning the Essence of Critique (1804) Heinrich von Kleist, On the Puppet Theater (1810) Heinrich Heine, On the History of Religion and Philosophy in Germany, Book I and II (1835) Karl Marx, Economic and Philosophical Manuscripts (1844) Friedrich Nietzsche, On Truth and Falsity in Their Ultramoral Sense (1873) Sigmund Freud, On Narcissism: An Introduction (1914) Sigmund Freud, Repression (1915) Sigmund Freud, Negation (1923) Walter Benjamin, The Work of Art in the Age of Technical Reproducibility (1936) Herbert Marcuse, The Affirmative Character of Culture (1937) Martin Heidegger, The Age of the World Picture (1938) Max Horkheimer/Theodor W. Adorno, Odyssey or Myth and Enlightenment (1944) Max Horkheimer, The Concept of Man (1957). Depending on time left and student interest, there may be additional readings, in particular by Jurgen Habermas, Hans Blumenberg and Niklas Luhmann.

GER 3604W Introduction to German Cinema
3 credit(s); Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Hueser, Rembert
Description: Aligning cinema and film culture to the limits of the nation-state does not make a lot of sense. "The contingent communities that cinema imagines are much more likely to be either local or transnational than national" (Higson, 2000). But what happens if hybridity turns out to be a fundamental feature of cinema and film culture in general? How productive are other categories of belonging that we have become so fond of over the years, for instance the distinction between "basic film types", such as "documentary", "fiction", "animation", and "experimental and avantgarde"? The class will introduce students to the study of film using the example of German cinema. We will introduce students to the study of film using the example of German cinema. It will be taught in English. German language proficiency is no prerequisite.

GER 3702 Beginning Middle High German
3 credit(s); prerequisite 1004;
Instructor: Hoptman, Ari E
Description: This course is an introduction to the language of Medieval Germany. We will be looking at prose and poetic texts from the period, as well as at the political and social history of the High Middle Ages. No prior knowledge of the language is required, but students should be well acquainted with the grammatical terminology of Modern German.
Grading: There will be quizzes, a midterm, a final, and a presentation. Participation, however, will count heavily.
GER 4040 German Play: Oral Interpretation and Performance of German 1-3 credit(s), max credits 9, 3 repeats allowed; Instructor: McCormick, Rick Description: This course will be taught by Professors Rick McCormick and Eric Baker. It is intended to accompany the production of the German play for this academic year, which will be Lessing’s “Nathan der Weise” (written 1779; first performed 1801). This play, a product of the German enlightenment, is set in the Middle East during the Crusades. It is a plea for tolerance among Christians, Jews, and Muslims. The play will be performed in German. All students involved in the production of the play as actors, members of the technical crew, and/or assistants to the director can get credit for their work on the play by enrolling in this course, in which we will a) study the play to be produced in terms of the various aesthetic, historical, and theoretical contexts necessary to analyze it, and b) conduct work on the play production itself. Both undergraduate and graduate students can get credit for their work on the play. Students interested in registering for the course should attend the auditions on Thurs. Nov. 8 from 4-5:30 & Fri. Nov. 9 from 2-3:30 in 128 Fowell (please attend even if you don’t want to audition for a part as an actor). Readings will include the play itself and various critical articles about it. There will be ca. 20 pp. of writing: ca. 15 pp. informal journal writing, and 5pp. formal report at the end of the semester summarizing the student’s learning about and/or work on the play. Grading: 80% of grade = participation in play production and classroom participation; 10% = informal journal entries; 10% = final report. The final will be no exam. These requirements are for those who register for the full 3 credits: everyone needs to keep the journal, write the final report and participate actively in at least two of the following activities: acting (as an actor or understudy); program/research/publicity; costumes/props/make-up; lighting/sets/projections/sound. To register for two credits, one needs to keep a journal and be involved in one activity. To register for one credit, one needs to be involved in one activity. Our schedule will involve considerably more than the one currently scheduled class meeting per week; active participation will involve attending these extra meetings/rehearsals; as the semester goes on, especially as we approach the performance of the play, this may involve rehearsals every day, as well as occasionally on the weekend, especially in the week or two before the performance. The schedule will be set up early in the semester so as to fit the schedule of all participants. The play will be performed in late April, toward the end of the semester. For more information contact: Rick McCormick, mccor001@umn.edu.

Style: 20% Lecture, 80% Laboratory, “lab=“rehearsal, performance work. Grading: 20% reports/papers, 80% class participation. 80% participation in play production; 10% journal; 10% final report

Exam Format: There will be no exam

GER 8200 Seminar in Medieval German Literature and Culture: Tristan & Tristram 3 credit(s), max credits 9, 3 repeats allowed; prereq 5721; Instructor: Wakefield, Ray M Description: In this graduate seminar the Department of German, Scandinavian and Dutch offers a unique “two for one special”: two great, medieval Germanic stories (Tristan by Gottfried von Strassburg and The Saga of Tristram and Isolde), two medieval languages (Middle High German and Old Norse), two instructors ? and only one day a week! The course is designed so that students only need reading knowledge of one of these languages, and qualified undergraduates are also encouraged to participate. We will look at such diverse topics as translating, narrative structure and cultural themes, character portrayal, and audience. The course will include sessions on medieval illustrations of the story, Wagner’s Tristan, and a 20th-Century movie version. For further information see Ray Wakefield (wakef001@tc.umn.edu) or Kaaren Grimsdal (grims001@tc.umn.edu). Interested undergraduates need a “magic number” to register, available from the Department or from the instructors.

GER 8240 Seminar in 20th-Century German Literature and Culture: Berlin U.S.A. A-F only, 3 credit(s), max credits 9, 3 repeats allowed; Instructor: Hueser, Rembert Description: On October 2, 2007, DaimlerChrysler and Sony announced to sell their property in the centre of the Potsdamer Platz as they had “overrated the importance of Berlin for their business.” Also this year, and after much political pressure, the Freie Universität ended 9th and last in the consolation round of the so-called “Exzellenzinitiative,” whose goal it was to identify “elite-universities” in Germany. (The Humboldt University and the TU did not qualify.) Yet, the view of Berlin as a hot plate moved to the Ruhrgoebiet. A second attempt after 1970 to sell a so-called “Berliner Schule” of filmmakers did not catch on. In June 2004, Texte zur Kunst, the most important German journal of contemporary art and culture, which had emphatically moved to Berlin in 2000, published issue 54, titled “Escape to New York.” “Standortfaktoren” sind beispielsweise in Berlin nicht gerade leicht zu finden, und sie sind auch kaum zu konstruieren. Keiner wird ernsthaft bezweifeln, so sehr auch Köln und Berlin ihre besonderen Reize als Kunststandorte haben, dass man sich in New York in einer anderen Liga bewegt! ... Haben Sie schon einmal daran gedacht, Berlin zu verlassen? Und wenn ja, wohin? In June 2002, both the FAZ and the Suddeutsche discontinued the “Berliner Seiten,” they had started in 1999. The Merkur declared its endlessly evoked “Berliner Republik” a failure. The last time, Hertha BSC was German Soccer Champion was 1931; it currently ranks(6.10.2007) the 10th of 18 in the Bundesliga. What’s wrong with Berlin? Nothing, of course! It’s not Berlin’s fault that it cannot live up to its hype. The class will look at the Berlin hype both in Germany and the USA. The course will include: What fuels the Berlin fantasies since the 19th century? What has become of the repeatedly proclaimed encounter of the East and the West? What is Berlin kitsch? What does it mean to understand culture in terms of center and periphery? What constitutes a city? We will look at films, literary texts, art works, architecture, and scholarly and journalistic texts.

GER 8820 Seminar: Advanced Theory: Short Theory
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Schulze-Sasse, Jochen
Description: The course is called "Short Theory" (i.e., it focuses on short theoretical texts such as fragments and aphorisms). While there are a few short essays on the reading list (by Kant, Hegel, Schopenhauer, Marx, Engels, and Nietzsche), the main focus will be on sayings, epigrams, aphorisms, apothegms, and fragments written (roughly) between 1784 and 1996. Besides the ones mentioned, authors include Friedrich Schlegel, Novalis, Benjamin, Adorno, and Hans Blumenberg. The readings will be in German (a reader will be available from Alpha Print); the language of the course is English.

GER 8994 Directed Research
1-3 credit(s), max credits 12, 12 repeats allowed; prereq instr consent, dept consent; may be taken as tutorial with instr consent;
Instructor: Joeres, Ruth-Ellen B
Description: Student may contact the instructor or department for information.

Gerontology
D-351 Mayo (Box 197 UMHC)

GER 5110 Biology of Aging
3 credit(s);
Instructor: Snow, MD, PhD, D. LeAnn M
Description: Student may contact the instructor or department for information.

Global Studies
214 Social Science

GLOS 1600 Topics in Global Studies: Hip-Hop in a Global Perspective
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Riviere, Melissa
Description: Student may contact the instructor or department for information.

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 3145H;
Instructor: Skaria, Ajay
Description: Student may contact the instructor or department for information.

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 3145H;
Instructor: Skaria, Ajay
Description: Student may contact the instructor or department for information.

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: GEOG 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 Aganwal, Barry Commoner, Michael Watts, P. Blaike; Dharam Ghai; 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 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 3550V Honors Course: Supervised Research Paper
4 credit(s); Meets CLE req of Writing Intensive;
Instructor: Goldman, Michael R
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 ICGC, instr consent; Meets CLE req of International Perspect Theme;
Instructor: Winkler, Anne
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: Karjanen, David J
Description: Globalization as a process, social force, and ideology produces complex and sometimes volatile local responses. This course explores the interconnectedness of the world and its implications, considering not one world, but many. Although globalization has become a buzzword of the past decade, is it, in fact, so new? If not, how does globality in the present differ from ?world systems? of the past? Does the fact that people all over the world see the same movies, eat at McDonalds, or drink Coca-Cola make us all the same? How do global flows of people and things affect local identities? How do
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: Muller Myrdahl,Tiffany
Description: The aim of this course is to provide students with a basic understanding of and appreciation for human population phenomena and problems in an increasingly interdependent world. This will involve an investigation of patterns and trends in fertility, mortality and migration of human populations in different parts of the world and an examination of how these are both shaped by, and engender economic, political, cultural, and environmental change. Throughout the course, particular attention is paid to: 1) contemporary population problems at the global, national and local scale, including the world population explosion, high levels of fertility in parts of the less developed world, record-low fertility and population aging in industrialized countries, the HIV-AIDS pandemic and major world health problems, increasing levels of international migration, refugee crises, massive rural to urban migrations in the less developed world; 2) policies adopted to address these problems such as family planning policies to reduce fertility levels and migration policies; and 3) the gender dimension of contemporary population problems and policies, including women's reproductive health and rights. In addition, this course will introduce students to various population theories, basic sources and measures for the study of population dynamics, and allow them to gain basic skills and experience in data analysis, interpretation, writing research reports and oral presentations.

GLOS 3900 Topics in Global Studies: Hip-Hop in a Global Perspective
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Riviere,Melissa
Description: The course covers the historical trajectory of hip-hop from its inception in the post-civil rights era of New York City during1970's in the form of four elements - break dancing, rap, turntablism, and graffiti art - to its contemporary identity as a global youth phenomenon. The historical development of hip-hop is accompanied with the analysis of scholarly works ranging from contemporary academic research to old-school rap lyrics.
Literature, lectures, legal cases, films and multi-media projects individually analyze each element and question the four-element paradigm that defines hip-hop today. The course looks at the role gender, class, and race play in the use of hip-hop as a tool for social change while simultaneously acting as a corporate marketing device. The course aims to re-structure stereotypes and offer a deeper perspective into how hip-hop defines the identities of individuals as well as the consciousness of masses. Anthropology of Hip-Hop breaks down the course into nine distinct sections: (1) Legendary Roots, (2) Hip-Hop!? the Four Elements and Pop Culture, (3) The New Revolution & Gangster Rap, (4) Rap on Trial, (5) Race & Class Politics of Hip-Hop, (6) Turntablism & Production, (7) Bling Bling: Hip-Hop Consumerism, (8) Gender/Sexuality, and (9) Global Hip-Hop. Guest speakers and local hip-hop artists are incorporated into the course so as to contribute to an ongoing dialogue between academia and the community. Students are expected to actively participate in class sessions, maintain the designated reading schedule and participate in one of five (1 of 5) two-hour workshops (breath dance, turntablism, graffiti art, lyricism, and/or beat boxing) outside of regularly scheduled class time.

GLOS 3900 Topics in Global Studies: Place and Politics
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Till,Karen E
Description: How do individuals and social groups actively shape understandings of the past and give form to their desires for the future through places, landscapes and environments? By looking at particular case studies in different parts of the world, this course will consider how different societies at distinct times and places have in time spatially construct and negotiate national and local histories through geographies of memory. Cultural memory is an inherently spatial process whereby individuals and groups map stories and myths about themselves and the past onto and through places, nature and public spaces to establish a sense of identity. Museums and memorials have historically been built as official places of memory, but even in such traditional places, the pasts remembered at these locales are open to multiple interpretations. Beginning roughly in the late 1970s, many citizen groups began to challenge what they considered former or national histories by creating alternative places of memory, such as the Topography of Terror Documentation Center in Berlin or the District Six Museum in Cape Town. Public artists also create site-specific and socially inclusive designs to encourage visitors to address their problematic pasts. Throughout the class, we will consider theories about place making, politics, public engagement, and memory by consider particular case studies. The course will also explore the tensions, contradictions, and moral dilemmas of contemporary globalizing processes.

GLOS 3900 Topics in Global Studies: Globalization and the Security Dilemma
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Mentan,Emmanuel Tatjah
Description: This course examines the full array of military and non-military factors that influence global security problems, paying particular attention to the special nature of security problems in the developed and developing worlds. The first section of the course analyzes the forces--political, economic, cultural, military, technological, demographic, and environmental--that shape security problems, and it provides a historical overview of the historical security landscape today. The second part examines security problems--past, present, and emerging--on a region-by-region basis, looking at Europe, Asia, the Middle East, Africa, and Latin America. The final section of the course assesses current trends and the prospects for stability and security in the apparently anarchic global system with competing poles of power. The course consists of the following objectives: 1) to teach students alternative social science theories for understanding contemporary global security problems; 2) to provide the basic technical and scientific information needed to understand these problems; 3) to explore the policy options that are available to decision-makers in the U.S. and other states; and, 4) to give students the intellectual tools and desire to continue to study global security issues after the course is over.
GLOS 3900 Topics in Global Studies: Politics of Eating
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Schurman, Rachel
Description: How do we eat a Coke, rice and beans, creme brulee? What meanings do these foods conjure up, and for whom? Where are their ingredients produced and consumed and how has this been shaped by history, politics, and power? This course takes a historical and transnational perspective to the politics of food production, consumption and distribution. For example, one of the foods U.S. residents take for granted is bananas, yet we would not have bananas year-round if it were not for the historical relationship that evolved between the U.S. and Central America. Food carries such deep cultural significance in France that French food producers and consumers have staged large-scale public demonstrations against imports of genetically modified foods on the grounds that they threaten national sensibilities of what food should be. This course seeks to get you to think analytically about something that most of us take for granted: where our food comes from, why we eat the way (and what) we do, and the local and global politics surrounding our encounters with food.

GLOS 3900 Topics in Global Studies: Perspectives on Islam and Woman
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Colak, Zuleyha
Description: Islam is one of the most debated topics in the world today. Does Islam promote what we are used to seeing everyday in the media? What does it have to say about the modern life and role of women? To what extent does a Muslim woman perceive the modern world and accommodate herself to the current situation? In this course, the sources of and issues related to Islam will be analyzed from the perspective of its relation to the modern world today. The issues related to Islamic culture and civilization will be seen from a comparative perspective. Islamic literature, art, music and culture will be used as tools to understand current issues, specifically concerning the role of women. The current Western view of Muslim women portrays them as victims. These stereotypes are formed before reading translated Islamic texts or considering historical and cultural conceptions of women’s intellectual activities since the beginning of Islam, which include the Eve, Potifar’s Wife and Virgin Mary narratives in the Qur’an, works of Muslim Women, and biographies of women leaders, scholars and Sufi mystics. This course is a survey of issues related to Islam and women based on the Islamic primary and secondary literature. A variety of texts and documentaries will be used to enrich the perception of the traditional and modern perspectives. Through a survey of ideas, literature, and films from both from within and outside of the world of Islam, this course seeks to foster an understanding of the many perspectives on women and Islam through critical thinking and analysis of Scripture and interpretation.

GLOS 3900 Topics in Global Studies: Black Europe: The African Diaspora in Europe
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Keaton, Trica Danielle
Description: Who are the Blacks of Europe? Are people of the African diaspora the only ones identified as ‘black’ in European societies? What semantic terrain does the term ‘diaspora’ inhabit in this context? And, how do the experiences of racialized groups compare across European and U.S. national space? This seminar explores these and other critical questions related to the presence and impact of the African diaspora in Austria, Britain, France, Germany, the Netherlands, and Scandinavia to further our understanding of the connection between ideas of ‘race’ and belonging in these sites. For well over the past decade, there has been a great deal of discussion among European Union members about the spread of racialized exclusion in Europe, as eyes turn toward and away from the United States for both models and anti-models to address these dilemmas. An official discourse of color-blindness is, however, well anchored in certain societies, which, as the Afro-Dutch scholar Philomena Essed documents, relies on the assertion that “we do not have the word ‘race’ in our language, therefore, there is no racism.” Drawing, then, from fascinating readings, films, and invited guests from Europe and the U.S., we will dissect a variety of intriguing issues, as we journey through several European countries, including those reflective of immigration patterns to Minnesota, that is, European countries whose black populations are increasingly making their presence known.

GLOS 3900 Topics in Global Studies: Transnational Migration:Networks of People & Place
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Abdi, Copeman
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.

GLOS 3900 Topics in Global Studies: U.S. Hegemony & Humanitarian Intervention
3 credit(s), max credits 15, 3 repeats allowed;
Instructor: Zhang, Ruizhuang
Description: Like it or not, U.S. hegemony is the reality of life the world is to live with in the foreseeable future. But is hegemony necessarily bad, as the word conventionally connotes? In its neutral sense, hegemony simply means world dominance. In the anarchic jungle of international relations, hegemony provides the world with a certain kind of order? the hegemonic order. Whether such an order is better or worse than the law of jungle depends on the nature of the hegemony? a benign one or a malicious one. A hegemony is benign if it enjoys widely accepted legitimacy, which in turn is based on three foundations: leadership and multilateralism in handling world affairs; justice in international laws and their enforcement; and public goods supplied by the hegemon. A benign hegemony is more likely to be accepted by the rest of the world and to last longer. With such a teleological/perceptive framework, the U.S. hegemony in the Western world during the Cold War and its worldwide hegemony since after the Cold War will be examined to reveal their nature and implications for the future of the U.S. in the world. International interventionism is an important aspect of hegemony. Since Tony Blair’s speech in Chicago and NATO’s military intervention in Kosovo, humanitarian intervention or the so-called neo-interventionism has become a doctrine of American foreign policy. But is this doctrine plausible in principle and feasible in practice? How does this doctrine relate to the current norms of international relations based on national sovereignty and to the growing internationalization and globalized on U.N. Charter? Who defines a humanitarian disaster? Who deems an intervention necessary? Who authorizes the use of force? If these questions cannot be answered properly, international intervention may as well become a threat to the peace and security of the world, and a disaster for the countries and peoples involved, regardless of what kind of adjective to be used for its qualification. In addition to the theoretic discussion, some cases of humanitarian intervention will be studied to test the hypotheses coming out of our deductive reasoning.

GLOS 3906 Foreign Language Immersion Program Completion S-N only, 1 credit(s), max credits 2; prerequisite enrolled in full core course load in target language to permission of Foreign Language Immersion Program;
GLOS 3920 Topics in European Studies: The 'Francophonie' in Switzerland
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Crepon, Pascale Florence
Description: Course prerequisite: Students must have successfully passed French 3015: Advanced Grammar and Communication. Course description: The Francophone culture beyond Europe is the legacy of the French colonial empire, but what about the European Francophone countries such as Belgium, Luxembourg, or Switzerland? This course will introduce students to the European 'francophonie' while exploring historical, political and cultural facts about Switzerland. We will engage with the unique francophone aspects of this country through critical essays, print media, films and literary texts from and about Switzerland. We will point out differences from and similarities with another European country, Belgium, as well as other francophone countries outside of Europe. We will also address the questions of national and linguistic identities, immigration and emigration regarding Switzerland. This survey course has 3 main goals: 1) to examine a Francophone European country in order to expand the definition of 'francophonie'?; 2) to engage on the problematic of French influences in language acquisition, culture and literature within Europe, 3) to improve linguistic skills in reading, writing, and speaking French. Requirements: All readings, discussions, presentations, and papers will be in French. Students will be evaluated on the basis of participation in class discussions, oral presentations, three reaction papers, and a final research project. Readings: 1) Histoire Suisse en un clin d'œil, Joelle Kuntz, Carouge-Geneve : Editions Zoe, 2007 - Selections of literary texts, critical essays, and print media, available as a course packet.

GLOS 3920 Topics in European Studies: Was uns bewegt: Substantial Law and International Human Rights
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Weiss, Friederike
Description: Ideas, issues and controversies in contemporary German culture -- The course examines issues that different generations in Germany are currently concerned with. These include changes in the educational system due to the 'Pisa Studie' as well as the efforts to reform higher education, relationships between East and West Germans, unemployment and changes in the welfare system, efforts to come to terms with the history of the National Socialism, immigration and multiculturalism and Germany's aging population. Students will work with a range of texts, from newspaper articles, stories and surveys to films as well as interviews and television clips. Students will respond to the texts, films and audio materials in informal conversations, discussions, presentations and written response papers. They will compile their work, do further research on a topic and reflect on it in a final project (a research paper or a multimedia project: film, artwork, website).

GLOS 3930 Topics in Latin American Studies: Human Rights in Global Hispanic & Lusophone World
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 and 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. 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.

GLOS 3970 Topics in African Area Studies: Hist Background to War & Genocide in Rwanda, et al
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Wagner, Michele (none)
Description: The 1994 Rwandan genocide shocked the world: in the course of 100 days some 800,000 persons were brutally murdered and more than two million people fled their homes as refugees. This enormous and complex catastrophe shocked Rwandans as well: because it occurred despite the in-country presence of United Nations peacekeepers and thousands of international diplomats and aid workers, many of whom were there specifically to establish peace, confidence and security. How did the genocide happen? What occurred in Rwanda's past to lead to this tragedy? Why has this tragedy continued to unfold -- without international attention, outcry or even understanding -- in Rwanda, as well as in the neighboring countries, especially Congo? Style: 25% Lecture, 25% Film/Video, 25% Discussion, 10% Small Group Activities, 5% Student Presentation, 10% Guest Speakers. Grading: 15% mid exam, 20% reports/papers, 20% special projects, 15% attendance. 30% reflection paper

GLOS 3981W Major Project Seminar
A-F only, 3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Murali, Emily H
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: Goldman, Michael R
Description: Student may contact the instructor or department for information.

GLOS 4910 Topics in Global Studies: Sociology of German Society
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Savelsberg, Joachim J
Description: This is a sociology course directed at students with an interest in Germany and Europe who major in Sociology or in other departments and programs such as Global Studies; History; Political Science; Anthropology, Geography; and German, Scandinavian and Dutch. The course seeks to provide students with an understanding of German society, its history and its contemporary shape. One question to be addressed is how the horrendous aggression of WWII and the Holocaust could be committed by and in Germany and how contemporary Germany deals with the trauma of these events. Another section examines contemporary social institutions such as family, education, religion, welfare state, social movements, law and...
politics from a comparative perspective. This section yields insights not just into German society, but also into others, including American society. As in study abroad programs, we often learn more about particularities of our own country by experiencing (or studying) others. The linkage of Germany into Europe and the wider international community will be a final theme. This theme also includes a discussion of American-German relations. Course participants read sociological texts, supplemented by readings from other fields and by supplemental materials such as media reports, literature and film. Lecture will be accompanied by discussion and small group work. 

**Style:** 45% Lecture, 10% Film/Video, 25% Discussion, 10% Small Group Activities, 10% Student Presentation.

**Grading:** 40% mid exam, 25% final exam, 20% reports/papers, 10% attendance, 5% in-class presentation.

**GLOS 4910 Topics in Global Studies: Variations in European Social Policy**

3 credit(s), max credits 9, 3 repeats allowed; Instructor: Fleck, Christian

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

**GLOS 5900 Topics in Global Studies: The Holocaust, Genocide, and Law**

3 credit(s), max credits 12, 3 repeats allowed; prereq Jr or sr or grad student; Instructor: Feinstein, Stephen

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

**GLOS 5900 Topics in Global Studies: Perspectives on Islam and Woman**

3 credit(s), max credits 12, 3 repeats allowed; prereq Jr or sr or grad student; Instructor: Colak, Zuleyha

**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, instr consent;

**Instructor:** Stetsenko, Elena V.

**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, instr consent;

**Instructor:** Stetsenko, Elena V.

**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, instr consent;

**Instructor:** Stetsenko, Elena V.

**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, instr consent;

**Instructor:** Stetsenko, Elena V.

**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, instr consent;

**Instructor:** Stetsenko, Elena V.

**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, instr consent;

**Instructor:** Stetsenko, Elena V.

**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 50 or successful completion of 5102], [current or anticipated] TA assignment;

**Instructor:** Beers, Barbara Lee

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

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

**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:** Jetter, Mary

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

**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:** Alexander, Ilene Dawn

**Description:**

**GRAD 8101 Teaching in Higher Education**

OPT No Aud, 3 credit(s);

**Instructor:** Ferguson, Jeanine

**Description:**

**GRAD 8101 Teaching in Higher Education**

OPT No Aud, 3 credit(s);

**Instructor:** Crull, Andra Lynn

**Description:**

**GRAD 8101 Teaching in Higher Education**

OPT No Aud, 3 credit(s);

**Instructor:** Weinsheimer, Joel Clyde

**Description:**

**GRAD 8102 Practicum for Future Faculty**

S-N only, 3 credit(s); prereq [8101 or equiv], [native English speaker or SPEAK Test score of 55/60 or ELP rating of 1 from [5102 or 5105]]: 
GRK 3310 Advanced Undergraduate Greek: Oratory
3 credit(s), max credits 9, 3 repeats allowed; prereq 3114 or 3 years HS Greek or dept consent;
Instructor: Sheets, George A
Description: This course is an introduction to ancient Athenian trial speeches, also called "forensic oratory." The expected learning outcomes are as follows: 1. Improve one's proficiency in Greek prose. 2. Become familiar with the genre of Attic forensic oratory. 3. Acquire a working knowledge of Athenian private law and judicial process, other political institutions of the Athenian democracy, and elements of the social history of Athens the 4th century BCE. 4. Complete a research paper on a topic related to the syllabus.
Style: 10% Lecture, 45% Discussion, 45% Student Presentation.
Grading: 30% mid exam, 30% final exam, 30% additional semester exams, 10% in-class presentation.

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: Speedie, Stuart M
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.

HINF 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed; prereq instr consent;
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 1102 Beginning Biblical Hebrew II
5 credit(s); prereq Grade of at least [C- or S] in [1101 or 4104] or instr consent; Credit will not be granted if credit has been received for: HEBR 4105;
Instructor: Jassen, Alex
Description: This five credit course, which is the second of a two semester series, provides a logical introduction to the language, grammar, and vocabulary of the Hebrew Bible/Old Testament. We work systematically through a standard textbook and begin to read actual samples of biblical texts. By the end of this semester you will be able to read and understand a number of biblical narrative passages. This course will benefit students interested in the language, religion, and culture of ancient Israel and the ancient Near East. It will also permit students to read and understand the grammar of medieval and modern Hebrew, and provides the essential background for subsequent work in graduate school or seminary. Students will also learn ways to approach learning a classical language.
Style: 50% Lecture, 50% Discussion. Grading: 40% mid exam, 25% final exam, 25% quizzes, 10% written homework.

HEBR 3012 Intermediate Hebrew II
5 credit(s); prereq Grade of at least [C- or S] in [3011 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: Stackert, Jeffrey R
Description: Student may contact the instructor or department for information.

HEBR 3993 Directed Studies
1-4 credit(s), max credits 4, 1 repeat allowed; prereq instr consent;
Instructor: Schneller, Renana Segal
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
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 9/15/2008 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 2008.

HNDI 1102 Beginning Hindi
3 credit(s);
Instructor: Schneller, Renana Segal
Description: This five credit course, which is the second of a two semester series, provides a logical introduction to the language, grammar, and vocabulary of the Hebrew Bible/Old Testament. We work systematically through a standard textbook and begin to read actual samples of biblical texts. By the end of this semester you will be able to read and understand a number of biblical narrative passages. This course will benefit students interested in the language, religion, and culture of ancient Israel and the ancient Near East. It will also permit students to read and understand the grammar of medieval and modern Hebrew, and provides the essential background for subsequent work in graduate school or seminary. Students will also learn ways to approach learning a classical language.
Style: 50% Lecture, 50% Discussion.
Grading: 40% mid exam, 25% final exam, 25% quizzes, 10% written homework.

HNDI 4002 Beginning Hindi
3 credit(s); prereq 1101; Credit will not be granted if credit has been received for: HNDI 4004;
Instructor: Prasad, R
Description: This course is based on Sheela Verma’s textbook. With regular interactive group activities, video and lab sessions, the emphasis of the course will be on the ability to engage in reasonably fluent discourse in Hindi, on comprehensive knowledge of formal grammar and advanced reading, writing and comprehension.
Style: 25% Lecture, 25% Discussion, 25% Laboratory.
Grading: 25% mid exam, 25% final exam, 25% quizzes, 10% in-class presentation, 5% class participation, 10% laboratory evaluation.
Exam Format: Essay questions, translation, oral interviews

HNDI 3132 Intermediate Hindi
3 credit(s); prereq 4002; Credit will not be granted if credit has been received for: HNDI 4004;
Instructor: Prasad, R
Description: This five credit course 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 4012 Intermediate Hebrew II
3 credit(s);
Instructor: Jassen, Alex
Description: This five credit course, which is the second of a two semester series, provides a logical introduction to the language, grammar, and vocabulary of the Hebrew Bible/Old Testament. We work systematically through a standard textbook and begin to read actual samples of biblical texts. By the end of this semester you will be able to read and understand a number of biblical narrative passages. This course will benefit students interested in the language, religion, and culture of ancient Israel and the ancient Near East. It will also permit students to read and understand the grammar of medieval and modern Hebrew, and provides the essential background for subsequent work in graduate school or seminary. Students will also learn ways to approach learning a classical language.
Style: 50% Lecture, 50% Discussion.
Grading: 40% mid exam, 25% final exam, 25% quizzes, 10% written homework.

HEBR 4107 Intermediate Biblical Hebrew II
3 credit(s); prereq Grade of at least [C- or S] in 3101 or instr consent;
Instructor: Stackert, Jeffrey R
Description: This five credit course 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, 25% quizzes, 10% class participation.
Exam Format: multiple choice, fill in the blank and a small essay

HNDI 1102 Beginning Hindi
5 credit(s); prereq 1101; Credit will not be granted if credit has been received for: HNDI 4002;
Instructor: Shankar, Anjana
Description: Student may contact the instructor or department for information.

HNDI 1102 Beginning Hindi
5 credit(s); prereq 1101; Credit will not be granted if credit has been received for: HNDI 4002;
Instructor: Asrar, Nadim
Description: Student may contact the instructor or department for information.

HNDI 3132 Intermediate Hindi
5 credit(s); prereq 3131 or instr consent; Credit will not be granted if credit has been received for: HNDI 4004;
Instructor: Prasad, R
Description: This course is based on Sheela Verma’s textbook. With regular interactive group activities, video and lab sessions, the emphasis of the course will be on the ability to engage in reasonably fluent discourse in Hindi, on comprehensive knowledge of formal grammar and advanced reading, writing and comprehension.
Style: 25% Lecture, 25% Discussion, 25% Laboratory.
Grading: 25% mid exam, 25% final exam, 25% quizzes, 10% in-class presentation, 5% class participation, 10% laboratory evaluation.
Exam Format: Essay questions, translation, oral interviews

HNDI 4002 Beginning Hindi
3 credit(s); prereq 4001, grad student; Credit will not be granted if credit has been received for: HNDI 1102;
Instructor: Shankar, Anjana
Description: Student may contact the instructor or department for information.

HNDI 4004 Intermediate Hindi
3 credit(s); prereq 4003, grad student; Credit will not be granted if credit has been received for: HNDI 3132;
Instructor: Prasad, R
Description: Student may contact the instructor or department for information.

HNDI 4162 Advanced Hindi
4 credit(s); prereq 4161 or instr consent;
Instructor: Prasad, R
Description: Student may contact the instructor or department for information.

HNDI 5993 Directed Readings
1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Sawhney, Simona
Description: Student may contact the instructor or department for information.

HNDI 5993 Directed Readings
1-4 credit(s), max credits 12, 3 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Sahota, Bali S.
Description: Student may contact the instructor or department for information.

HIST 1011W Origins: Global Societies Before 1500
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 1017; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Casale, Giancarlo
Description: World History: The Origin and Diversity of Human Societies to 1500. In this course we will cover the sweep of history in its broadest sense, from the beginnings of agriculture and the emergence of the first complex human societies in the fourth millennium BCE to the Age of Explorations and the dawn of the modern world circa 1500. Themes to be addressed include trade, religion, technological innovation, the spread of ideas, and
the development of the world's great civilizations and their mutual interaction over time.

**Style:** 60% Lecture, 40% Discussion.

**Grading:** 15% mid exam, 25% final exam, 30% reports/papers, 30% class participation.

**Exam Format:** Essay and short answer

**HIST 1018 The Age of Global Contact**

3 credit(s); Credit will not be granted if credit has been received for: HIST 1012V; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspectives Theme;

**Instructor:** Farmer, Thomas R

**Description:** The word "globalization" is tossed around a lot today, even though those who use it rarely define it precisely. In addition, many people today assume that globalization is a recent phenomenon, which began only in the 1990s. But in fact, current globalization is only a phase of a much longer process, which has been going on since 1492. Of course, the level of communication and contact today is much greater than in the past, but nevertheless, our ancestors were much more connected than we give them credit. In this class, we will explore the increased communications and contact after 1500 set in motion many of the processes which are still with us today (migration, international commerce, spread of diseases, and formation of new cultures), and see how the contacts established in these centuries helped give rise to the world we live in today.

**Style:** 60% Lecture, 40% Discussion.

**Grading:** 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation. Class attendance is mandatory, and will count as part of class participation (as will short, informal writing assignments).

**Exam Format:** The exams will have two parts: One section of terms to identify, and one section of essay questions. You will be given a pool of terms and questions, and will be asked to answer a certain number of them. The final is cumulative.

**HIST 1019 Globalization: Issues and Challenges**

3 credit(s); prereq credit will not be granted if credit has been 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 Perspectives Theme;

**Instructor:** Weiskopf, Julie Marie

**Description:** History 1019 explores historically our increasingly globalized world from 1950-2000. We will examine how the phenomenon of heightened globalization in its social, political, and economic forms is experienced locally by focusing on several regions in different parts of the world. Readings include primary documents, one historical novel, scholarly essays, and broad, textbook-summaries of international relations. We will study how the syllabus may change before the semester begins, course requirements currently include a map quiz, 1 midterm, 1 final exam, 2 shorter formal papers (5-6 pages), 1 longer research paper (10-15 pages), as well as smaller assignments.

**HIST 1026 Western Civilization from its Origins to ca 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 Perspectives Theme;

**Instructor:** Grace, Philip David

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

**HIST 1032W Western Civilization, From 1500 to Present**

4 credit(s); prereq [Fr or soph (any)] or [jr or sr, non-Hist mjr only]; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspectives Theme; meets CLE req of Writing Intensive;

**Instructor:** Shank, JB

**Description:** A critical inquiry into the problem of "the West" as it has emerged historically since 1500. Students will scrutinize primary documents which have helped to define the West and learn to distinguish these texts within their historical context. Lectures will introduce students to the problematic which define the modern West while discussion sections will invite students to critically engage with these problems. Interpretive essays will constitute the central written assignments in the course. This course will be web enhanced but the URL is not available yet.

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

**Grading:** 30% final exam, 50% reports/papers, 20% class participation.

**Exam Format:** Take-home essays

**HIST 1302W U.S. History, From 1865 to Present**

4 credit(s); prereq [Fr or soph (any)] or [jr or sr, non-Hist mjr only]; Credit will not be granted if credit has been received for: HIST 1308; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

**Instructor:** Chang, David Anthony

**Description:** This course surveys American history since the Civil War, exploring transformations in American politics, society, and culture. Though it is wide-ranging, it has as a unifying theme the question of how and why people have defined the American nation in different ways, and how those ideas have related to race and gender. Topics covered include the end of the Civil War, Reconstruction, westward expansion and Indian resistance, industrialization, immigration, World War I, African American migration and cultural innovation, the cultural turmoil of the 1920s, the Depression and New Deal, the Second World War at home and abroad, Japanese internment, the Cold War, the Civil Rights Movement, feminism, other social movements, the Vietnam war and the anti-war movement, cultural politics in the 1970s, new conservatism and 1980s culture wars, the 1990s, 9/11, the Gulf War and the Iraq War.

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

**Exam Format:** Combination of essays and identifications.

**HIST 1302W U.S. History, From 1865 to Present**

4 credit(s); prereq [Fr or soph (any)] or [jr or sr, non-Hist mjr only]; Credit will not be granted if credit has been received for: HIST 1308; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;

**Instructor:** Lindquist, Malinda A

**Description:** This course surveys American history since the Civil War, exploring transformations in American politics, society, and culture. Though it is wide-ranging, it has as a unifying theme the question of how and why people have defined the American nation in different ways, and how those ideas have related to race and gender. Topics covered include the end of the Civil War, Reconstruction, westward expansion and Indian resistance, industrialization, immigration, World War I, African American migration and cultural innovation, the cultural turmoil of the 1920s, the Depression and New Deal, the Second World War at home and abroad, Japanese internment, the Cold War, the Civil Rights Movement, feminism, other social movements, the Vietnam war and the anti-war movement, cultural politics in the 1970s, the new conservatism and 1980s culture wars, the 1990s, 9/11, the Gulf War and the Iraq War.

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

**Exam Format:** Combination of essays and identifications.

**HIST 1307 American History to 1877**

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:** Merrill, Herbert Lincoln

**Description:** This course surveys the political, intellectual, cultural, and social history of the United States from the age of European exploration to Reconstruction (c. 1500-1877). Though the course is wide-ranging, we will explore, as a unifying theme, the tension throughout the American experience between the individual and society. This tension manifests itself in American political culture in the divide between republicanism (a theory of citizenship) and liberalism (a theory of rights). Topics include European exploration and colonization, the colonial collision of cultures, colonial life and development, the Revolutionary era including the U.S. Constitution, culture and politics in the Early
Republic, industrialization and the market revolution, antebellum slavery, the old South, Jacksonian politics and culture, Cherokee removal, westward expansion, the Mexican War, growth of abolition and women's rights, the Civil War, and Reconstruction. Although most topics are touched on, we will pay particular attention to the Revolutionary and Civil War eras.

**Style:** 60% Lecture, 10% Film/Video, 30% Discussion.
**Grading:** 20% mid exam, 25% final exam, 25% reports/papers, 10% quizzes, 10% written homework, 10% class participation.
**Exam Format:** Short Identifications and Essay

**HIST 1904** Freshman Seminar: Beijing Games and Sports in China
A-F only, 3 credit(s), max credits 6; prereq freshman; Meets CLE req of International Perspectives Theme;

**Instructor:** Isett, Christopher Mills
**Description:** Student may contact the instructor or department for information.

**HIST 1905** Freshman Seminar: From Mongol Hordes to Corporate Boards: Turkey
A-F only, 3 credit(s); prereq freshman;

**Instructor:** Casale, Giancarlo
**Description:** Student may contact the instructor or department for information.

**HIST 1907W** Freshman Seminar: Race and Sports
A-F only, 3 credit(s); prereq freshman; Meets CLE req of Cultural Diversity Theme; Meets CLE req of Writing Intensive;

**Instructor:** Mathieu, Saje
**Description:** This Freshman seminar examines the intersection between the experiences of athletes of color and the emergence of organized sports in the United States during the twentieth century. We will be particularly interested in how organized sports mirror broader social and political debates about the roles of women, as well as those of African, Asian, Native, and Hispanic Americans. We will look at the contributions of Americans of color; their challenges to segregation; the integration of professional sports; and contemporary concerns over athletes of color in college athletics and professional sports. This class is designed as a writing intensive seminar and will focus on developing research and writing skills, with particular emphasis on historical methodology. Thus, we will analyze a host of sources for their effectiveness as historical tools, including biographies, journalists' accounts, and memoirs.

**Style:** 30% Lecture, 20% Film/Video, 50% Discussion.
**Grading:** 20% reports/papers, 30% special projects, 30% reflection paper, 20% class participation.

**HIST 3053** Ancient Civilization: Rome
3 credit(s);

**Instructor:** Gallia, Andrew B
**Description:** This course provides a general introduction to the broad sweep of Roman history, from the emergence of their civilization, through the growth and conquest of an enormous (and remarkably stable) empire, to the break-up and transformation of the western empire in the fourth century of our era. We will look at the cultural underpinnings of Roman power as well as its inner workings in order to get some sense of what it meant to live under Roman rule.

**Style:** 80% Lecture, 10% Discussion, 10% Small Group Activities.
**Grading:** 35% final exam, 25% reports/papers, 30% quizzes, 10% class participation.

**HIST 3151W** British History to the 17th Century
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:** Hartman, Jeff
**Description:** The importance of pre-modern Britain resonates in our daily life through our use of the English language, our system of laws and government and the great body of British literature and folktales that we read and retell in television and movies. We will explore the social and cultural backgrounds of these developments as Celtic, Roman, Anglo-Saxon, Viking and Norman forces worked together to shape the religious and political institutions that affected the every day life of people in the British Isles. Important topics will include the conversion of England by outside forces and the subsequent expansion of England which led to conflict with Wales, Ireland and Scotland; the creation of legal, political and religious systems by the ruling class and their popular reception; the upheaval of the fourteenth century, including the Hundred Years War, the Black Death and the Peasant's Revolt; religious dissent and reform during the fifteenth and sixteenth century; changes in rural and urban life; and economic and political change leading up to the English Civil War.

**Style:** 33% Lecture, 17% Film/Video, 25% Discussion, 25% Small Group Activities.

**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 after all, the sun never set on the British empire. But during 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 3212** Dissident Sexualities in U.S. History
A-F only, 3 credit(s); prereq Jr or sr or instr consent;

**Instructor:** Murphy, Kevin P.
**Description:** This course examines the intersections of gender, race, and sexual orientation in the United States. Major topics include the construction of gender and sexuality during the period of European conquest and colonization; the growth and policing of commercialized sex in the nineteenth century; the centrality of ?miscegenation? to racial politics in the nineteenth and twentieth centuries; the development of ?modern? categories of homosexuality and heterosexuality; the formation and contestation of transgender, bisexual, lesbian, and gay identities and communities; the politics of sexual oppression and resistance in the twentieth century; and public debates over sex work and sexual representation. The success of this class depends on informed and engaged discussion. Therefore, assigned readings must be read before each class session. Assignments include three papers and two in-class presentations. Freshmen and sophomores wishing to enroll in course should contact instructor for approval.

**Style:** 30% Lecture, 20% Film/Video, 30% Discussion, 5% Small Group Activities, 10% Student Presentation, 5% Guest Speakers.
**Grading:** 70% reports/papers, 10% in-class presentation, 20% class participation.

**HIST 3348** Women in Modern America
HIST 3432 Modern Africa in a Changing World
3-4 credit(s); Credit will not be granted if credit has been received for: AFRO 3432; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Mandaala, Elias Coutinho
Description: This course uses film, literature, and historical studies to understand the transformation of African societies during the colonial era and its neocolonial aftermath. It maps out the forging of new national identities, creation of wage laborers, restructuring of rural communities, and changing power relations between women and men, the young and old. Students will also explore how African men and women, from their homes and workplaces, and as part of nationalist and national liberation movements during and after the Cold War, have sought to redefine their place in the global economy amidst new opportunities and challenges presented by environmental degradation, the HIV/AIDS pandemic, hunger, international debt, and China's growing thirst for the continent's seemingly inexhaustible natural resources.

HIST 3435 History of South Africa from 1910
3 credit(s); Credit will not be granted if credit has been received for: AFRO 3205; Meets CLE req of Historical Perspective Core;
Instructor: Atkins, Kelesto E
Description: Student may contact the instructor or department for information.

HIST 3436 Historical Background to Contemporary African Conflicts: Case Studies
3 credit(s);
Instructor: Wagner, Michelle (None)
Description: In terms of number of lives lost, the 20th century was the deadliest in human history, and much of this destruction and tragedy took place in Africa. Why? This course draws on some of the newest works of African history to probe the causes of present-day patterns of conflict and human rights violations. The course is organized around both case studies and historical patterns. We will examine case studies from Sudan, Liberia, Somalia, Ethiopia, Nigeria and Kenya. Moving back into the past, we will examine patterns of exercising power, managing conflict, dealing with diversity and difference, distributing resources, addressing inequality and punishing crime. We will consider how such patterns have developed and changed over time, how they have been affected by internal and external influences, and what roles they play in promoting or reducing conflict today.
Style: 25% Lecture, 25% Film/Video, 25% Discussion, 10% Small Group Activities, 15% Guest Speakers. film, guest speakers
Grading: 15% mid exam, 40% reports/papers, 15% special projects, 15% class participation, 15% problem solving.
Exam Format: essay

HIST 3461 Introduction to East Asia I: The Imperial Age
3-4 credit(s), max credits 4, 1 repeat allowed; Credit will not be granted if credit has been received for: EAS 3461; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Wang, Liping
Description: Student may contact the instructor or department for information.

HIST 3462 Introduction to East Asia II: 1600-2000
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 Perspect 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 the world over this period. Class time will be devoted mostly to lectures, but will also include time for questions, discussion, and film. Grades are based on performance in mid-term (25%), final exam (35%), two 5-6 page papers (15% each), and participation in discussion (10%). The reading load is modest to heavy, with about 75 pages a week in translate primary sources and secondary books.
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 3466 Religion and Society in Imperial China
3 credit(s); Credit will not be granted if credit has been received for: ALL 3373; Meets CLE req of Historical Perspective Core;
Instructor: Waltner, Ann Beth
Description: This course will examine the varieties of religious experience in imperial China. It will examine religion as lived practices as well as textual traditions. We will look at Buddhism, Daoism, and Confucianism, as well as the relations among them. We will also look briefly at the western missionary enterprise in China, particularly at ways in which the western presence throws certain aspects of Chinese religion into sharp relief. We will pay particular attention to the material culture of Chinese religion, through videos, through visits to the Minneapolis Institute of Arts, and through visits to local temples. We will be attentive to the historical development of Chinese religions. The class will be a mixture of lecture and discussion. As much as possible, class activities will focus on a close reading of primary texts.
Style: 45% Lecture, 35% Discussion, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers. Students will be required to make a field trip either to the Minneapolis Institute of Arts or a local Asian temple.
Grading: 20% mid exam, 30% final exam, 15% reports/papers, 5% attendance, 20% reflection paper, 10% class participation. These percentages are subject to slight revision.
Exam Format: You will be asked to identify and give the significance of key terms. You will also be asked to write essays.

HIST 3479 History of Chinese Cities and Urban Life
3-4 credit(s), Credit will not be granted if credit has been received for: HIST 5479;
Instructor: Isett, 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. Grades are based on performance in mid-term (25%), final exam (35%), two 5-6 page papers (15% each), and participation in discussion (10%). The reading load is modest to heavy, with about 75 pages a week in translate primary sources and secondary books.
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 3505 Survey of the Middle East
3 credit(s); Credit will not be granted if credit has been received for: ARAB 3505; Meets CLE req of International Perspect Theme;
Instructor: Hakim, Carol
Description: This course examines the history of the modern Middle East. It reviews the main political events in the region during the 19th and 20th centuries, as well as the underlying social, economic, and intellectual issues that have shaped the history of the Middle East in the modern era. Topics to be covered include the decline of the Ottoman Empire, imperialism and colonialism, nationalism and the rise of the modern states, Political Islam, and the evolution of post-independence states and societies up until the present.

HIST 3509 Survey of the Middle East
3 credit(s); Credit will not be granted if credit has been received for: ARAB 3505; Meets CLE req of International Perspect Theme;
Instructor: Hakim, Carol
Description: This course examines the history of the modern Middle East. It reviews the main political events in the region during the 19th and 20th centuries, as well as the underlying social, economic, and intellectual issues that have shaped the history of the Middle East in the modern era. Topics to be covered include the decline of the Ottoman Empire, imperialism and colonialism, nationalism and the rise of the modern states, Political Islam, and the evolution of post-independence states and societies up until the present.
HIST 3609 Military History of Medieval Western Europe
3 credit(s);
Instructor: Bachrach, Bernard S
Description: This course deals with the period from the gradual dissolution of Roman imperial power in the West during the fifth century to the development of gunpowder weapons in the fifteenth century. The immense significance of the military history of this thousand year adventure is evidenced in numerous ways as the governments of western Europe expended the greatest part of their surplus human and material resources on preparation for war, war and its aftermath. The centrality of military matters is expressed culturally in every genre of literature. Violence and its deterrence are fundamental themes in medieval legislation and in religious rites. Images of armed conflict are prominent in medieval art forms from manuscript illustration to the sculptures of church facades. The results of the massive expenditure on the military &quot;military-industrial&quot; complex can still be seen in the remains of thousands of fortified cities, fortresses and other strongholds that still dominate the historical landscape of Europe. In this course, we will work with the available historical and archaeological sources to reconstruct the strategy, military operations, battle tactics, and combat techniques developed throughout the medieval millennium within their particular historical contexts.
Style: 65% Lecture, 35% Discussion.
Grading: 20% mid exam, 40% final exam, 30% reports/papers, 10% class participation.
Exam Format: short and long essays

HIST 3611 Medieval Cities of Europe: 500-1500
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Reyerson, Kathryn L
Description: This course is designed to introduce undergraduates to European urban forms in the pre-modern era. The political, social, economic, legal, and cultural life of medieval towns, as well as their physical remains, will be explored. The evolution of the town will be traced from the Roman period through the nadir of urban civilization in the Early Middle Ages to the rebirth and flowering of cities in the High and Late Middle Ages. Newly planned towns also figure in our focus. Cities have enjoyed an upward trajectory from the end of the Middle Ages to the present, and much of what we associate with urban life got its start at that time. By understanding the foundational elements of the medieval town, we can increase our comprehension of the idea of the city and how it works. There are no prerequisites - the course is open to everyone with an interest in cities. Lectures, films, analysis of documents, and presentations frame this course. Student discussion is encouraged.
Style: 70% Lecture, 30% Discussion.
Grading: 25% mid exam, 35% final exam, 30% reports/papers, 10% class participation.
Exam Format: Essay

HIST 3615W Women in European History: 1500 to the Present
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Maynes, Mary Jo
Description: History 3615w is designed to introduce students to the history of women and gender relations in Europe from 1500 to the present. We will examine this history in the context of the family, in law and politics, and in the economy, as well as in cultural, religious and intellectual realms. These various dimensions of women's lives are explored across eight chronologically ordered units of 1 or 2 weeks each: 1) early modern patriarchy; 2) women and gender in Enlightenment and Revolutionary Europe; 3) women, nation, and empire; 4) women, nation, and empire; 5) First-Wave? feminism and the New Woman; 5) gender, war and fascism; 6) the postwar restoration and the rebellions of the 1960s; 7) women in socialists and post-socialist Europe; 8) European women in a changing world. Emphasis will be on historical transformation and the variety (along the lines of class, religion, geography, etc.) of women's experiences. We will be reading many primary documents as well as historians? analyses. The documents will be drawn from a wide range of genres, much of it writing by women, for example: letters, treatises, fiction, memoirs, and speeches. The course will also provide opportunities to think about how usual narratives of European history have been written, and how different perspectives are paid to women and gender relations. Including women in European history calls into question how we understand the Reformation and Luther's attacks on clerical celibacy, for example, or the usual characterizations of periods such as the Enlightenment. It makes us rethink things often taken for granted in modern European political culture (such as the practice of using women figures like Marianne to represent nations) and to notice how much of the appeal of early feminism was because of its hostility to first-wave feminism. It also calls attention to how challenges to the political or religious order are often bound up with challenges to the gender order. One recurrent theme will be how gender relations affect the options and choices that women (and men) make, how these options are understood and change over time, and how women can be understood as active forces in history. The realm of operation of women's historical agency that we will consider is quite wide and includes not only directly political activities such as food riots or participation in suffrage groups, but also historically important ?private? decisions about marriage, sexuality, childbearing etc. In other words, the course in not just about adding new historical information about the European past. It is also about questioning that history, and questioning the usual ways of thinking about and doing history, from a gendered perspective.
Style: 35% Lecture, 15% Film/Video, 25% Discussion, 20% Small Group Activities, 5% Web Based.
Grading: 10% mid exam, 15% final exam, 25% reports/papers, 10% special projects, 15% quizzes, 10% attendance, 15% class participation.

HIST 3619 Chivalry, Crisis, and Revival: Medieval History 1050-1500
3 credit(s);
Instructor: Lowrie, Michael T
Description: Far from being a dark and dismal age when nothing happened and life was "nasty, brutish, and short," the Middle Ages was a time of rapid and sometimes disconcerting social, cultural, and political change. The central and later medieval periods (c.1050-c.1500) witnessed a revolution in agricultural and commercial techniques, a movement away from and then a new embracing of city life, a flowering of notions of chivalry and courtly love, an aggressive expansion outward, an experiment with representative political institutions, and a profound engagement with new forms of religious life. By the end of the Middle Ages, western Christianity had emerged. Some of the chief legacies of this culture - parliamentary institutions, common law, the university, and the state - are significant because they are still a feature of western society today. But our primary aim will be to engage with medieval people in their own right. Topics will include: heresy and inquisition; Abelard and Heloise; the Crusades; medieval castles and cathedrals; the Black Death; the Peasants Revolt; the Hundred Years War; Joan of Arc; the Italian Renaissance; and the voyages of exploration. The course is suitable for majors, non-majors, and transfer students alike.
Style: 50% Lecture, 50% Discussion.
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 20% other evaluation, 10% writing assignments.
Exam Format: short answer and essay

HIST 3704W Daily Life in Europe: 1300-1800
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Phillips, Carla Rahn
Description: Under the broad heading of "Daily Life in Europe," we will examine various key issues in the lives of men and women in Europe between the Black Death and the Industrial Revolution. Some of the historical questions we will ask are: What were the rates of birth, marriage, and death in various European countries? What effect did epidemics and wars have on population size and the quality of life? How did men and women find marriage partners? What experiences did they have...
in their marriages and family lives? How did people at various levels of society make a living? How and why did some of them travel far from where they were born? Did their standards of living change over time? Who held the reins of power? How was society structured and how did social classes relate to one another? How and why did ordinary people rebel against governments and the privileged classes? What results did these rebellions have? What role did formal religion and other beliefs play in people’s lives? Was witchcraft a major force in society? These and other questions will shape the lectures, readings, and discussions in the course. Whether the readings deal with family and sexual behavior, farming, manufacturing, buying and selling goods, seafaring, religion, culture, or other topics, all of the authors discuss how interpretations have changed over time and offer their own revised interpretations of daily life in the past, based on an expanding body of documentary evidence. The class therefore introduces students, not only to the history of daily life in the early modern period, but also to the ways that historians interpret it, and the ways that they, as critical thinkers, can assess the interpretations of those historians.

Grading: 15% mid exam, 40% final exam, 35% reports/papers, 5% attendance, 5% in-class presentation, 2% class participation. Students must complete all of the graded assignments in order to receive a grade for the course. Unexcused late work is penalized.

Exam Format: Essays, both short and long, plus a map on the mid-term. Students will know the questions for the final examination in advance.

HIST 3708 The Age of Curiosity: Art and Knowledge in Europe, 1500-1800
3 credit(s);
Instructor: Shank, JB
Description: Student may contact the instructor or department for information.

HIST 3714 Medieval Spain
3 credit(s);
Instructor: Phillips, Jr., William D
Description: This course will trace the history of the peoples of the Iberian peninsula during the Middle Ages. The emphasis will be on the interactions of the different cultures – Christian, Jewish, and Muslim – that gave medieval Spain its unique flavor in Europe. Empahsis as well on environment, ecology, and institutional development. Instructor is William D. Phillips, Professor of History and Director of the Center for Early Modern History, who has written six books dealing with aspects of medieval Spain.

Style: 40% Lecture, 40% Discussion, 10% Small Group Activities, 10% Student Presentation.
Grading: 30% mid exam, 40% final exam, 15% reports/papers, 15% class participation.

HIST 3722 20th-Century Europe From the End of World War II to the End of the Cold War: 1945-1991
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Vovchenko, Dennis
Description: How was power projected, legitimated and challenged in Europe after WWII into the Cold War and beyond? How was the modern global dynamics of empire, religion, nation, class, gender and race reflected in the European popular mass media at the time and in historical memory? With these general questions and concepts in mind, we will explore the changing nature of cultural, social, and national conflicts as the effects of WWII, the Cold War, decolonization, Americanization, consumerism, migration, terrorism, and the collapse of state socialism in Europe. Music, movies, fiction, and memoirs will give us a sense of what was going on “on the ground.” Analyzing scholarly arguments will expose us to the wide range of possible interpretations of a period of time that falls within living memory. The course will focus on integrating the general political and social history of post-1945 Europe with a more detailed look at selected works of artistic, literary, and intellectual production. The class is organized chronologically and conceptually rather than geographically. Instead of following one country after another we will stress a number of topics common to the experience in both Eastern and Western Europe.

Style: 50% Lecture, 20% Film/Video, 30% Small Group Activities;
Grading: 30% final exam, 30% reports/papers, 20% quizzes, 20% class participation.
Exam Format: Quizzes instead of midterm, take home final exam

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: Weitz, Eric D
Description: The word “Holocaust” refers to the extermination of 6 million Jews and 500,000 Roma and Sinti (Gypsies) during the rule of National Socialism (NAZI) in Germany. Others labeled “undesirable” or “subhuman” were also exterminated in this process. In this course, particular attention will be given to the phenomenon of anti-Semitism, in both its religious and secular forms, to the relationship between mass murder or genocide and the growth of bureaucracy and technology, and to the challenges posed by the Holocaust for religious and humanistic beliefs and values. The course uses cross-disciplinary approaches, as well as documents, films and guest speakers.

Style: 90% Lecture, 10% Discussion.
Grading: 25% final exam, 70% reports/papers, 5% class participation.

Exam Format: Short answer and essay with choices. Study sheet given prior to exam.

HIST 3728 Race, Nation, and Genocides in the Modern World
A-F only, 3 credit(s);
Instructor: Weitz, Eric D
Description: “Race, Nation, and Genocides” is designed to introduce students to one of the most troublesome and unnerving aspects of the modern world: the systematic exclusion and killing of populations defined by ethnicity, nationality, or race. Genocides are not the only form of political killings, and are certainly not the only form of human rights violations. They have existed in some fashion since the beginning of recorded history. But in the modern world, genocides have become more systematic, more extensive, and more deadly. In HIST 3728 we will begin by exploring the definition of the term genocide as it has developed in the twentieth century. Then we will turn to the meaning of ethnicity, nationality, and race, which are all historically specific ways of categorizing the human population. We will then examine particular cases of genocide, such as Armenians in the late Ottoman Empire, Jews in the Third Reich, and Muslims in the former Yugoslavia, among others. Finally, we will explore the emergence of new concepts of human rights in reaction to genocides and other large-scale atrocities. The course will be taught as a combination of lectures and discussions. Readings will include some theoretical works on
ethnicty, nationality, and race; a variety of historical studies; and eyewitness accounts and literature about specific cases. There will be about 90 pages of reading per week. Grades will be determined by two papers, a midterm and a final, and classroom participation.

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

**Grading:** 20% mid exam, 35% final exam, 40% reports/papers, 5% class participation.

**Exam Format:** essay and identifications

**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/Publi Ethics Theme; meets CLE req of Historical Perspective Core; Instructor: Marshall, Christopher John

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

**HIST 3775 History of the European Jews from the Middle Ages to the Present**

3 credit(s);

**Instructor:** Cohen, Gary B.

**Description:** HIST 3775 - History of the European Jews from the Middle Ages to the Present (3 credits) Examines the social, political, and cultural history of European Jews from the end of the Middle Ages to after World War II. Topics include the patterns of medieval settlement, medieval expulsions and creation of ghetto communities; society and culture in the late medieval and early modern ghettos; beginnings of change and modernization in the eighteenth century; patterns of emancipation between the French Revolution and the mid-nineteenth century; the contrasting experiences in western and eastern Europe; adaptation to modern industrialization and urbanization; migration and assimilation; the rise of modern political Antisemitism and Zionism; the Holocaust and post-1945 recovery. Mixed lecture-discussion format. 2 midterm examinations and a final examination (ident. items and essay); one 7-to-9 page paper

**Style:** 100% Lecture.

**Grading:** 50% mid exam, 25% final exam, 25% reports/papers.

**Exam Format:** five identification items and one essay for each examination

**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: Menard, Russell R

**Description:** A multicultural survey of early North America, from the beginning of the English invasion to the American Revolution.

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 33% final exam, 67% reports/papers.

**Exam Format:** essay; TAKE-HOME

**HIST 3802 "Sinners, Saints, and Savages": Religion in Early America**

3 credit(s); prereq Non-fr or instr consent

**Instructor:** Fischer, Kirsten

**Description:** "Sinners, Saints, and Savages": Religion in Early America offers a social and religious history of people of differing faiths and how they changed each other in the crucible of early North America to about 1820. We will explore how people perceived religious differences, creating notions of "us" and "them," "civility" and "savagery." We will investigate Native American, Euro-American, and African American cosmologies; culturally divergent visions of a better world; the religious motivations and justifications behind efforts to reform (or transform) society; the relationship between religious worldviews and ideas about racial difference, gender relations, class structures, and relations of authority. We will also examine how religious faiths and religious institutions could serve as vehicles of oppression or of liberation. How did religious beliefs shape the experiences of and responses to colonization, enslavement, and revolution? This 3-credit course will meet on M/W from 10:10-11:25.

**Style:** 10% Lecture, 5% Film/Video, 60% Discussion, 20% Small Group Activities, 5% Student Presentation.

**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: Tochterman, Brian L

**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 plagued 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, 10% Film/Video, 15% Discussion.

**Grading:** 20% mid exam, 30% final exam, 50% reports/papers.

**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:** Mathieu, Saje

**Description:** This course explores African American history from Emancipation to the present. It analyzes the social, political, legal, and cultural dimensions of the African American experience in the United States throughout critical historical moments such as Reconstruction, industrialization, segregation, suffrage, the Great Migrations, World War One, the Great Depression, the New Deal, World War II, the Civil Rights Movement, the black power movement, and contemporary racial politics. In addition to historical texts, students will work closely with various primary sources produced by African Americans, including speeches, newspapers, memoirs, photographs, art, and film.

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

**Grading:** 25% mid exam, 25% final exam, 30% reports/papers, 20% class participation.

**HIST 3872 American Indian History: 1830 to the Present**

3 credit(s); Credit will not be granted if credit has been received for: AMIN 3872; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

**Instructor:** Redix, Erik M

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

**HIST 3891 American Military History**

4 credit(s);

**Instructor:** Buckley, Thomas Cotter

**Description:** A survey of military history from colonial times through the Vietnam War. The course looks at the interaction of factors such as geography, politics, and technology in the growth of the military and its impact on America and the World. The three major units are: The military and the formation of the nation 1607-1860, the modernization of the military 1861-1916, and the global range of American military power 1917-1990's. Student's written work in the course will focus on adding to their knowledge of sources in military history, and enhancing their ability to critically evaluate what they have read.

**Style:** 85% Lecture, 15% Discussion. Lectures are supplemented with slides.

**Grading:** 20% final exam, 20% reports/papers, 40% quizzes, 10% class participation.

**Exam Format:** Short answer and essay

**HIST 3920 Topics in African History: Hist Background to War & Genocide in Rwanda, et al**

3 credit(s), max credits 16, 5 repeats allowed; prereq Jr or sr or instr consent;

**Instructor:** Wagner, Michele (none)

**Description:** The 1994 Rwandan genocide shocked the world: in the course of 100 days some 800,000 persons were brutally murdered and more than two million people fled their homes as refugees. This enormous and complex catastrophe shocked Rwandans as well; because it occurred despite the in-country presence of United Nations peacekeepers and thousands of international diplomats and aid workers, many of whom were there specifically to establish peace, confidence and security. How did the genocide happen? What occurred in Rwanda's past to lead to this tragedy? Why has this tragedy continued to unfold -- without international attention, outcry or even understanding -- in Rwanda, as well as in the neighboring countries, especially Congo?

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

**Grading:** 15% mid exam, 20% reports/papers, 20% special projects, 15% attendance, 30% reflection paper.

**HIST 3930 Topics in Ancient History: Egypt of the Pharaohs**

3 credit(s), max credits 15, 5 repeats allowed;

**Instructor:** Evans, John Karl

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

**HIST 3940 Topics in Asian History: Chinese Women and Family**

3 credit(s), max credits 16, 5 repeats allowed; prereq Jr or sr or instr consent;

**Instructor:** Wang, Liping

**Description:** This course aims to help understand women and gender relations in Chinese society from 1600 to the present. It explores major themes and problems such as marriage and family life, foot binding, the cult of women's chastity, women in both the Nationalist and the Communist revolutions, and gender relations in post-socialist China. We will look at the effect of ideologies (Confusionism, nationalism, and socialism) on women and family life, and also differences between ideology and social practice. This course is open to undergraduates, both history major and non-major.

**Style:** Films and other visual materials will be used to compliment lectures and class discussion.

**HIST 3959 How to Do History**

A-F only, 3 credit(s);

**Instructor:** Norling, Lisa A

**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:** Allison, Kirk Charles

**Description:** This course set was created in conjunction with the US Holocaust Memorial Museum visiting exhibition “Deadly Medicine: Creating the Master Race” (2/27-5/4) by the Program in Human Rights and Health and Center for Holocaust and Genocide Studies. The exhibit and courses explore the rise of eugenic thought internationally, the emergence of lethal practices in medical research and culture (Germany, Japan), and related historical contexts including the U.S. using film and lecture formats. Attention will also be paid to contemporary issues (neoeugenics). Two components are offered - a film course and a lecture course. Each of these can be taken as appropriate Undergraduate:

**HIST 3960 Topics in History: From Eugenics to Deadly Medicine and Back-Lecture**

1 credit(s), max credits 16, 5 repeats allowed; prereq Jr or sr or instr consent;

**Instructor:** Allison, Kirk Charles

**Description:** This course set was created in conjunction with the US Holocaust Memorial Museum visiting exhibition “Deadly Medicine: Creating the Master Race” (2/27-5/4) by the Program in Human Rights and Health and Center for Holocaust and Genocide Studies. The exhibit and courses explore the rise of eugenic thought internationally, the emergence of lethal practices in medical research and culture (Germany, Japan), and related historical contexts including the U.S. using film and lecture formats. Attention will also be paid to contemporary issues (neoeugenics). Two components are offered - a film course and a lecture course. Each of these can be taken separately or together up to a total of 3 credits. (Please enroll in one or both components separately.) All sessions will be on Thursdays (whether film or lecture), Films (6 pm): 1/24, 1/31, 2/14, 2/21, 2/28, 3/6 (Museum), 4/3, 4/10 (Museum), 5/1, 5/8, 5/15 Lectures (1 pm): 2/7, 2/28, 3/6 (Museum), 3/13, 3/27, 4/10 (Museum), 4/17, 5/15 "Common or exceptional meeting times (2/27-11:30am Coffman Union Theater, 3/6-6pm Science Museum of MN; 4/10-7 pm SMMM; Final 5/15 6pm) Enrollment Options (up to 3 credits) - select as appropriate Undergraduate: HIST 3960 Section 004 Eugenics-Deadly Medicine ? Film 2 credits Section 005 Eugenics-Deadly Medicine - Lect 1 credit Graduate: HIST 3960 Section 006 Eugenics-Deadly Medicine - Film 2 credits Section 008 Eugenics-Deadly Medicine - Lect 1 credit Summary:
This information is accurate as of 9/15/2008 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onetop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
schedules to make an original argument. The paper will be graded on the basis of both the argument/thesis developed in it and the quality and pertinence of the evidence gathered and its analysis. Class participation is also important and will make a big difference in the quality of the final paper; we will not meet together every week, but attendance and participation in in-class discussions and exercises is critical for your success in the course. Here is the list of assignments that represent the various stages of the senior paper process and around which the course is organized: Topic statement assignment Working bibliography Primary source oral report Outline, introduction, and revised annotated bibliography Faculty consultation written report Full draft of entire paper Peer review and class discussion of drafts Revised draft for peer copying Final paper

Style: 10% Lecture, 40% Discussion, 30% Small Group Activities, 20% Student Presentation, class time is devoted largely to discussion and critique of assignments, drafts and sources

Grading: 60% reports/papers, 15% in-class presentation, 20% class participation, 5% other evaluation.

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: Green, George David
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: Deutsch, Tracey A
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: Madden, Mollie M
Description: Student may contact the instructor or department for information.

HIST 5011 Quantitative Methods for Historical Research
4 credit(s); prereq instr consent;
Instructor: Ruggles, Steven
Description: The purpose of this course is to equip students with the skills and confidence to count things creatively. We will focus on three general areas: 1. Methods and statistics. We will move quickly through a gloss of the usual topics of elementary statistics (percentages, means, basic probability and tests of statistical significance, bivariate regression and correlation) and then turn to more advanced topics of special significance for historical sources (e.g., sample designs, family reconstitution, standardization and decomposition, indexes, measures of inequality, and regression). You will not end up an expert on any of these topics, but you should at least get an intuitive sense of what they are about and how to find out more. 2. Data management, software, and computers. We will focus on the use of SPSS for Windows and Microsoft Excel. We will also briefly cover several other programs for quantitative analysis. The topics covered will include data collection design, data entry, analysis of microdata, management of hierarchical data, making graphs, mapping, and techniques of aggregate data analysis. 3. Principles of measurement and presentation of quantitative information. These often-neglected topics are the heart of the course. They include the principles and philosophy of measurement, research designs and data sources, and aesthetic considerations in the presentation of quantitative findings.
Style: 33% Lecture, 33% Discussion, 33% Laboratory.
Grading: 25% special projects, 25% class participation, 25% laboratory evaluation, 25% problem solving.
Exam Format: N/A

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 5479 History of Chinese Cities and Urban Life
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: HIST 3479;
Instructor: Wang, Leping
Description: Student may contact the instructor or department for information.

HIST 5631 Proseminar: Comparative Early Modern History
A-F only, 3 credit(s); prereq Hist grad or instr consent;
Instructor: Menard, Russell R
Description: Early modern history, as defined here, concerns the history of the world in the five centuries from about 1300 to about 1800. It is not the history of a particular area, culture, or state, but rather deals with patterns and interactions that spanned the globe. The beginning of the period might be thought of in European terms (the Black Death, or the early Renaissance), in Asian terms (the passing of the Mongol world empire), or within the historical framework of other areas of the globe. At some point around 1500, following early European voyages of discovery, an era of global history began in which maritime exchange gradually brought other peoples into contact with the great, interconnected Eurasian and African land masses. The end of the period marks the beginnings of industrialization in Western Europe, a development signaling a new era in world history as a whole. The goal of this course is to provide a conceptual framework for thinking about early modern history. Students should gain: (1) familiarity with some of the leading specialists in various areas of the Early Modern World; (2) a sense of important issues and debates in those areas; (3) a broad overview of the chronology of early modern history, from a variety of perspectives; (4) a sense of the unique character of the system of global trade that emerged in the Early Modern period; and (5) ideas for further study and research in their own areas of interest. This is a pre-seminar, which means that it involves reading, discussion, and written analysis of published works of history, rather than research. However, graduate students who are working on research for the Master's degree or the Doctorate, or advanced undergraduates writing or preparing to write a Major Paper in History, could begin work on those tasks in this course. About half of the readings will focus on comparative information about various areas of the world. For the other half, students will select readings in their areas of specialty.

HIST 5631 Proseminar: Comparative Early Modern History
A-F only, 3 credit(s); prereq Hist grad or instr consent;
Instructor: Phillips, Carla Rahn
Description: Early modern history, as defined here, concerns the history of the world in the five centuries from about 1300 to about 1800. It is not the history of a particular area, culture, or state, but rather deals with patterns and interactions that spanned the globe. The beginning of the period might be thought of in European terms (the Black Death, or the early Renaissance), in Asian terms (the passing of the Mongol world empire), or within the historical framework of other areas of the globe. At some point around 1500, following early European voyages of discovery, an era of global history began in which maritime exchange gradually brought other peoples into contact with the great, interconnected Eurasian and African land masses. The end of the period marks the beginnings of industrialization in Western Europe, a development signaling a new era in world history as a whole. The goal of this course is to provide a conceptual framework for thinking about early modern history. Students should gain: (1) familiarity with some of the leading specialists in various areas of the Early Modern World; (2) a sense of important issues and debates in those areas; (3) a broad overview of the chronology of early modern history, from a variety of perspectives; (4) a sense of the unique character of the system of global trade that emerged in the Early Modern period;
and (5) ideas for further study and research in their own areas of interest. This is a pro-seminar, which means that it involves reading, discussion, and written analysis of published works of history, rather than research. However, graduate students who are working on research for the Master's degree or the Doctorate, or advanced undergraduates writing or preparing to write a Major Paper in History, could begin work on those tasks in this course. About half of the readings will focus on comparative information about various areas of the world. For the other half, students will select readings in their areas of specialty.

**HIST 5900 Topics in European/Medieval History: The Crusades**

- **Level:** A-F only
- **Credit(s):** 3 max credits 16, 5 repeats allowed
- **Instructor:** Lower, Michael T
- **Description:** Explore the crusades as a world-historical phenomenon, from the first preaching of the cross at Clermont in 1095 to the fall of Hospitaller Malta to Napoleon in 1798. What motivated medieval European men and women to set out on the conquest of a land thousands of miles away, about which they knew little? How did the papacy come to promote violence against the Muslim residents of that land as not merely justifiable, but as deserving of a great reward? How did the Muslim and also the Jewish communities who were the first targets of this violence respond to it, and how were relations among the three monotheisms transformed as a result? Investigate the political and ideological concerns that influence interest in the crusades today, including debates over the legacy of European colonialism, the origins of modern tensions between Islamic and Christian societies, and the legitimacy of using force to advance even worthy causes.
- **Style:** 100% Discussion.
- **Grading:** 50% reports, 25% written homework, 25% class participation.

**HIST 5910 Topics in U.S. History: Second Wave Feminism**

- **Credit(s):** 3, max credits 16, 5 repeats allowed
- **Instructor:** Evans, Sara M
- **Description:** Student may contact the instructor or department for information.

**HIST 5910 Topics in U.S. History: Race, Colonialism, and the Politics of US History**

- **Credit(s):** 3, max credits 16, 5 repeats allowed
- **Instructor:** Chang, David Anthony
- **Description:** This course will explore the politics of US history by reading in the intellectual and cultural history of the nineteenth and twentieth century, particularly as it concerns American Indian, Hawaiian, African American interventions on the meaning of colonialism and race. The course centers on cultural and intellectual history and politics, but because these are fields of inquiry that are best studied in broadly interdisciplinary ways, it incorporates readings in history and cultural studies, as well as foundational documents by nineteenth-century American Indian, Hawaiian, and African American intellectuals.

**HIST 5920 Topics in African Social History: Political Economy of Food**

- **Credit(s):** 3, max credits 15, 5 repeats allowed
- **Instructor:** Mandala, Elias Coutinho
- **Description:** This three-part exploration of the idea that in the world of African peasants food does not have an independent life apart from the social relations of those who eat it. Part I traces the social biography of food as it moves from the field to the table, with a focus on such routines as food cultivation, provisioning, and the alterations between seasons of hunger and plenty. Part II seeks to understand whether and to what extent the daily and seasonal processes of Part I acquired new meanings and long-term historical trajectories as a result of Africa's engagement with the global economy, changes in the natural environment, population pressure, cash crop agriculture, patterns of social inequality, and methods of teaching order. The third and last section recasts some of the themes of Parts I and II into a debate between peasant intellectuals and professional historians--a lopsided dialogue given that much of the academic theorizing takes place outside the African continent.

**HIST 5960 Topics in History: The African American Experience in South Africa**

- **Credit(s):** 3, max credits 16, 5 repeats allowed
- **Instructor:** Mandala, Elias Coutinho
- **Description:** Student may contact the instructor or department for information.

**HIST 5960 Topics in History: From Eugenics to Deadly Medicine and Back-Lecture**

- **Credit(s):** 1, max credits 16, 5 repeats allowed
- **Instructor:** Allison, Kirk Charles
- **Description:** This course set was created in conjunction with the U.S. Holocaust Memorial Museum visiting exhibition "Deadly Medicine: Creating the Master Race?" (2/27-5/4) by the Program in Human Rights and Health and Center for Holocaust and Genocide Studies. The exhibit and courses explore the rise of eugenic thought internationally, the emergence of lethal practices in medical research and culture (Germany, Japan), and related historical contexts including the U.S. using film and lecture formats. Attention will also be paid to contemporary issues (neoeugenics). Two components are offered--a film course and a lecture course. Each of these can be taken separately or together up to a total of 3 credits. (Please enroll in one or both components separately.) All sessions will be on Thursdays (whether film or lecture). Films (6 pm): 1/24, 1/31, 2/14, 2/21, 3/6 (Museum), 4/3, 4/10 (Museum), 5/1, 5/8, 5/15 Lectures (1 pm): 2/7, 2/28, 3/6 (Museum), 3/13, 3/27, 4/10 (Museum), 4/17, 5/15 Common or exceptional meeting times (2/27-11:30 am Coffman Theater; 3/6-6 pm Science Museum of MN; 4/10-7 pm SMM, Final 5/15 6pm) Enrollment Options (up to 3 credits) - select as appropriate Undergraduate: HIST 5960 Section 004 Eugenics-Deadly Medicine - Film 2 credits Section 005 Eugenics-Deadly Medicine - Lect 1 credit Graduate: HIST 5960 Section 006 Eugenics-Deadly Medicine - Film 2 credits Section 006 Eugenics-Deadly Medicine - Lect 1 credit Summary: Film Course (2 credits): 9 sessions with discussions and readings (6 p.m.); Lecture Course (1 credit): 8 sessions with discussion and readings (1 p.m.). Both will visit the exhibition at the Science Museum of Minnesota As a part of the exhibition-related University/community programming, non-enrolled persons are welcome to attend any lectures or films, space allowing. Information about the exhibition will be available at the Science Museum of Minnesota www.smm.org. For course information contact Kirk Allison (all00011@umn.edu, 612-626-6559). Instructors in various components include: Kirk Allison (Program in Human Rights and Health - Lead), Stephen Feinstein (Center for Holocaust and Genocide Studies). Outside lecturers include: George Annas (Boston University - The Legacy of the Nazi Doctors Trial for American Bioethics and International Human Rights Law), Harriet Washington (Medical Apartheid), Hans-Walter Schmuhl (University of Bielefeld - The Kaiser-Wilhelm Institute for Anthropology, Human Heredity and
Eugenics, 1927-1945), Eva Kor (Holocaust Survivor and film "Forgiving Dr. Mengele"), Mark Soderstrom (SUNY - Race and Eugenics: Minnesota and the University of Minnesota), Margot DeWilde (On science and medical atrocity). Students: traditional and nontraditional, from all majors welcome. Questions? alli00011@umn.edu or 612-626-6659

**Style:** 55% Lecture, 10% Film/Video, 25% Discussion, 10% Field Trips. % approximate.

**Grading:** 20% reports/papers, 50% reflection paper, 20% in-class presentation, 10% other evaluation. Note: Undergraduate credit there is no final paper with reaction papers worth 70%.

**HIST 5960 Topics in History: From Eugenics to Deadly Medicine and Back-Film**

2 credit(s), max credits 16, 5 repeats allowed; prereq Grad or [advanced undergard with instr consent ];

**Instructor:** Allison,Kirk Charles

**Description:** This course set was created in conjunction with the US Holocaust Memorial Museum visiting exhibition "Deadly Medicine: Creating the Master Race" (2/27-5/4) by the Program in Human Rights and Health and Center for Holocaust and Genocide Studies. The exhibit and courses explore the rise of the eugenic thought internationally, the emergence of lethal practices in medical research and culture (Germany, Japan), and related historical contexts including the U.S. using film and lecture formats. Attention will also be paid to contemporary issues (neoeugenics). Two components are offered - a film course and a lecture course. Each of these can be taken separately or together up to a total of 3 credits. (Please enroll in one or both components separately.) All sessions will be on Thursdays (whether film or lecture). Films (6 pm): 1/24, 1/31, 2/14, 2/21, 3/6 (Museum), 4/3, 4/10 (Museum), 5/1, 5/8, 5/15 Lectures (1 pm): 2/7, 2/28, 3/6 (Museum), 3/13, 3/27, 4/10 (Museum), 4/17, 5/15 "Common or exceptional meeting times (2/27-11:30am Coffman Theater; 3/6-6pm Science Museum of MN; 4/10-7 pm SMM; Final 5/15 6pm) Enrollment Options (up to 3 credits) - select as appropriate Undergraduate: HIST 3960 Section 004 Eugenics-Deadly Medicine - Lect 1 credit Summary: - Film Course (2 credits): 9 sessions with discussions and readings (6 p.m.) - Lecture Course (1 credit): 8 sessions with discussion and readings (1 p.m.) - Both will visit the exhibition at the Science Museum of Minnesota As a part of the exhibition-related University/community programming, non-enrolled people are welcome to attend any lectures or films, space allowing. Information about the exhibition will be available at the Science Museum of Minnesota www.smm.org. For course information contact Kirk Allison (alli00011@umn.edu, 612-626-6659). Instructors scheduled in various components include: Kirk Allison (Program in Human Rights and Health - Lead), Stephen Feinstein (Center for Holocaust and Genocide Studies), Rick McCormick and Rembert Heuser (German, Scandinavian and Dutch). Films slated include The Black Stork (1917), Architecture of Doom (1989), Selling Murder: The Killing Films of the Third Reich (1991), Opfer der Vergangenheit (1937 - with subtitles), Paragraph 175 (2000), Unit 731: Japan's Biological Force (2002), Forgiving Dr. Mengele (2006), Liebe Perle (2000), Elephant Man (1980).

**Style:** 10% Lecture, 50% Film/Video, 30% Discussion, 10% Field Trips. Note: Course meets in 9 sessions.

**Grading:** 20% reports/papers, 50% reflection paper, 20% class participation, 10% other evaluation. (Note for undergraduate credit reflection papers 70% without final paper.)

**HIST 5960 Topics in History: The Holocaust, Genocide, and Law**

3 credit(s), max credits 16, 5 repeats allowed; prereq Grad or [advanced undergard with instr consent ];

**Instructor:** Feinstein,Stephen

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

**HIST 5960 Topics in History: Modernity and Violence**

3 credit(s), max credits 16, 5 repeats allowed; prereq Grad or [advanced undergard with instr consent ];

**Instructor:** Skaria,Ajay

**Description:** This course is divided into two parts. The first part, which covers the first ten weeks, will explore how some modern thinkers (principally Hegel, Nietzsche, Heidegger, Arendt, Fanon, and Derrida) have tried to conceptualize violence, modernity, and the relations between the two. It will also explore how these thinkers have conceptualized nonviolence or peace. They have addressed the question of what would be nonviolent action, and indeed whether nonviolence is politically or conceptually possible. Very broadly speaking, this section of the course will explore conservative, liberal and radical arguments around violence and non-violence. In the second section, over the last four weeks, we will undertake a close reading of one of Gandhi’s texts. Hind Swaraj to see how it might differently illuminate or displace the questions that have emerged from our previous readings.

**HIST 5960 Topics in History: Space, Time & Histories of Sexuality**

3 credit(s), max credits 16, 5 repeats allowed; prereq Grad or [advanced undergard with instr consent ];

**Instructor:** Kunzel,Regina G

**Description:** Temporality and space, and their sometimes vexed relationship, have emerged as two primary concerns in histories of sexuality. This graduate seminar explores the history of sexuality through the lenses of these large themes. While most of our readings will focus on the U.S., we will consider comparative and transnational histories as well. Among the topics we will consider are definitions of sexual modernity and ?alternative modernities?; rural and urban sexualities; race, class, and geographies of sexual danger; sexualized tourist economies; surveillance and carceral space; transnational circuits; empire and colonial space; borders and borderlands; public and private space; and space and memorialization.

**Grading:** 50% written homework, 50% in-class presentation.

**HIST 5962 Expansion of Europe**

A-F only, 3 credit(s); prereq Grad student, instr consent; 

**Instructor:** Ragnow,Marguerite

**Description:** This is a course in the creation of the interconnected world in the period from the late fifteenth century through the eighteenth. The world-famous James Ford Bell Library (4th Floor Wilson Library) holds original hand-written and printed documents and maps showing the progress of European expansion and the interactions of Europeans and non-Europeans throughout the world. Selected documents and maps will be the basis of each lecture. Students will do hands-on research using those documents and produce a research paper reporting the results of their research. Dr. Marguerite Ragnow, Curator of the Bell Library, and William D. Phillips, Professor of History and Director of the Center for Early Modern History, will be the instructors for the course.

**Style:** 15% Lecture, 55% Discussion, 15% Small Group Activities, 15% Student Presentation.

**Grading:** 65% reports/papers, 10% in-class presentation, 15% class participation.

**HIST 5980 Topics in Comparative Women's History: Gender and Sexuality in a Global Perspective**

3 credit(s), max credits 15, 5 repeats allowed; prereq Grad student or [advanced undergard, instr consent ];

**Instructor:** Clark,Anna Kirsten

**Description:** This class will examine issues of gender and sexuality in a comparative perspective, focusing on Europe, Africa and India. We will look at how gender structures political relationships and the state, for instance in terms of the beginnings of the welfare state; we will analyze how sexuality becomes a flashpoint in colonial encounters, for instance the age of consent debates in India and controversies over clitorectomy in Kenya and Sudan. This class will focus on masculinity as well as femininity, examining how different versions of masculinity disenfranchise certain categories of men. This course will be especially useful to those tending to prepare for exams in comparative women’s, sexuality and gender history.
HIST 5990 Readings in Comparative History: Comparing Global Migrations
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq instr consent; Instructor: Gabaccia, Donna
Description: This course is open to graduate student historians, humanists and social scientists regardless of geographic area of expertise or disciplinary training. Students will be asked to tackle issues related to human mobility from a variety of disciplinary perspectives, to compare and to connect scholarly literatures on population movements in differing regions of the world, and to discuss concepts and paradigms that encourage analysis of migration at scales above and below the individual national state and across a wide variety of temporal scales, from the short to the very long term. Students will be encouraged to prepare a research prospectus that uses local sources to answer global questions.

HIST 8900 Topics in European/Medieval History: Fall of Roman Empire & Beginning of Middle Ages
A-F only, 3 credit(s), max credits 16, 5 repeats allowed; Instructor: Bachrach, Bernard S
Description: This course is intended for both advanced undergraduate students and graduate students who are interested in the later Roman Empire and the early Middle Ages. Students will have the opportunity to read about various aspects of the fall of Rome and the development of medieval Europe and the Middle East both in terms of the surviving sources, both literary and archaeological, and also in regard to the most recent ideas put forth by professional scholars. Courses of this type are useful to undergraduates developing their ideas for a senior paper, for MA students working on Plan A papers, or for the Plan B MA thesis.

HIST 8910 Topics in U.S. History: Cultural Encounters in Early America
A-F only, 3 credit(s), max credits 16, 5 repeats allowed; Instructor: Fischer, Kristen
Description: This research seminar investigates fascinating and complex moments of cultural encounter among different peoples in various places in early North America and the Caribbean. “Encounter” is a purposely generic and capacious term, one that includes everything from mutually beneficial trade relations to the cruelest forms of violence and exploitation. We will explore a range of experiences of contact and be attentive to the perspectives from which those experiences are narrated. Most of the assigned books are recently published works that offer state-of-the-art thinking about the interactions of Native Americans, Africans, and Europeans in the centuries before about 1800. (For a tentative reading list, contact kfischer@umn.edu.) Students will write two response papers to the assigned readings and one research paper based on the extraordinary holdings of the James Ford Bell Library, which houses the world’s largest collection of sixteenth-, seventeenth-, and eighteenth-century travel literature: more than 25,000 items in the form of books, maps, manuscripts, pamphlets, broadsides, and assorted printed documents. The library’s collection mostly presents a European perspective, although it is sometimes possible to read the sources against the grain for the experiences and perspectives of non-Europeans. For that reason, we will begin by reading critical analyses of European ideologies of empire and conquest. These books will introduce you to various methodological approaches and angles of analysis that will help you identify sources and themes for your research paper. Then we will move on to works that study actual encounters among Africans, Native Americans, and Europeans, and the complex range of conflicts, accommodations, adaptations, and struggles that ensued.

HIST 8960 Topics in History: Quantitative Methods for Historical Research
A-F only, 3 credit(s), max credits 16, 5 repeats allowed; Instructor: Ruggles, Steven
Description: Student may contact the instructor or department for information.

HIST 8960 Topics in History: Concept of the Person in Legal History
A-F only, 2 credit(s), max credits 16, 5 repeats allowed; Instructor: Blumenthal, Susanna
Description: The ‘reasonable man’ is a familiar figure in legal doctrine, making appearances in a broad range of civil and criminal cases, and generating lively academic debate. But this seminar considers a more fundamental issue?what are the mental preconditions for being considered a legal person in the first place? To answer this deceptively simple question, we will examine cases and commentaries penned by judges and jurists, looking across time and doctrinal fields. This inquiry will be necessarily interdisciplinary in nature, because members of the legal profession have themselves drawn on a range of nonlegal texts?religious, philosophical, literary, and scientific?in their various constructions of the legal subject. The focus will be primarily on American legal culture, from 1800 to the present, and the doctrinal areas that will receive the greatest attention are contracts, wills, torts, and criminal law.
Style: Students must circulate short reaction papers for 3 separate sessions. Each week 1 student will be responsible for writing a 4-6 page essay on the reading material and leading the week’s discussion.

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 Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Eyler, John M
Description: This course is the second semester of a two-semester introduction to the social and intellectual history of modern European and American medicine. It is designed to form a part of a general liberal arts education, and it presupposes no special technical knowledge of the biomedical sciences. The two semesters form a chronological sequence, but the second semester course can be taken without prior enrollment in the first. The focus of HMED 3002W is on American developments since the mid-nineteenth century, although the influence of European experience on American health and health care will be emphasized. We will investigate the practice of physicians, surgeons, and some of the alternative health care providers. We will also study the growth and professionalization of health care and its increasing use of science and technology. The evolution of the hospital, the training of physicians, and the responses to infectious diseases, and the changing relationship between doctors and patients will all be featured.
Style: 60% Lecture, 40% Discussion.
Grading: 20% final exam, 60% reports/papers, 20% class participation.
Exam Format: Essay

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 human 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 5201 History of Medicine from 1700 to 1900
3 credit(s); prereq 5200;
Instructor: Eyler, John M
Description: This course is the second semester of a two-semester introduction to the social and intellectual history of modern European and American medicine. It is designed to form a part of a general liberal arts education, and it presupposes no special technical knowledge of the biomedical sciences. The two semesters form a chronological sequence, but the second semester course can be taken without prior enrollment in the first. The focus of HMED 3002W is on American developments since the mid-nineteenth century, although the influence of European experience on American health and health care will be emphasized. We will investigate the practice of physicians, surgeons, and some of the alternative health care providers. We will also study the growth and professionalization of health care and its increasing use of science and technology. The evolution of the hospital, the training of physicians, and the responses to infectious diseases, and the changing relationship between doctors and patients will all be featured.
Style: 60% Lecture, 40% Discussion.
Grading: 20% final exam, 60% reports/papers, 20% class participation.
Exam Format: Essay

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: Gunn, Jennifer
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: Eyler, John M
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.

History of Science and Technology

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 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. 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 1714 Technology and Civilization: Stone Tools to Steam Engines
4 credit(s); Credit will not be granted if credit has been received for: HSCI 3714; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
Instructor: Thomas, Mary Margaret
Description: Technology is an enormous force in our society, and this course asks how it became so important. We explore the historical background, development, and character of the most powerful technological systems the world has known, from prehistoric stone tool societies, through Egypt and the pyramids, ancient Greece and Rome, the explosion of Islam, and the dynamic and often violent technologies of medieval Europe. In this class, you will get to know your fellow students and find out what their interests are, and you will discuss historical problems with them in small groups and in discussion sections. You will listen to lectures and see films about particular technologies, and you will learn to ask key questions about each technology: who was involved? what were the circumstances? The course is designed for undergraduates from a variety of backgrounds, including engineering, literature, history, business, and the sciences.
Style: 55% Lecture, 35% Discussion.
Grading: 30% mid exam, 30% final exam, 15% reports/papers, 15% other evaluation. Discussion Sections: 10% Small groups
Exam Format: Combination of short answer and essay

HSCI 1814 Revolutions in Science: The Babylonians to Newton
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: Allchin, 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: Janssen, Michel
Description: This class is the second part of a two-semester introductory survey of the history of science. The two parts can be taken independently of one another. This class covers a selection of developments in physics, chemistry, biology, and geology from the 18th-20th C. We examine the reasoning of...
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 9/15/2008 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 2008

HSCI 3332 Science and American Culture
3 credit(s); Credit will not be granted if credit has been received for: HSCI 5332; Instructor: Barnhart,Megan K.
Description: This course is a survey of the history of science in American society and culture. We begin with Native American and European ways of understanding nature as well as the challenges and opportunities provided by North America as a place and cultural nexus. We will examine the role that science played in shaping the political ideology of the Founding Fathers and our Constitution. This course will investigate how the practice of science in America has changed over time, how and why scientific institutions were established, how the relationship between scientists and government has evolved, and how the access to scientific education has changed. We will also explore how science is reflected in American popular culture, and the curious relationship between science and religion in the United States. This course meets the requirement for diversity and will present, in terms of both participation in and implications of, topics such as the historical differentiation between natural and moral philosophy as exemplified in the works of Francis Bacon and early scientific academies; ethical aspects of preindustrial technological societies; a variety of ethical systems based on scientific and technological possibilities such as utilitarianism, social Darwinism, and eugenics; the development of engineering ethics; ethical problems in scientific research such as the Tuskegee experiments; the role of science and technology in National Socialist Germany; ethical implications of advanced weapons systems, such as nuclear weapons; the development or codes of ethics in engineering; and ethical issues in genetic research and engineering. Students will take part in small group discussions of weekly assigned readings. Students in the sciences, engineering, and medicine are welcome, as are students from the social sciences and humanities. The course fulfills historical perspective core curriculum and citizenship and public ethics theme requirements.
Style: 55% Lecture, 35% Discussion.
Grading: 25% exam, 25% final exam, 25% reports/papers, 25% class participation.

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 has 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.
Style: 30% Lecture, 15% Film/Video, 30% Discussion, 15% Small Group Activities, 10% Web Based.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation.

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/Publ Ethics Theme; meets CLE req of Historical Perspective Core;
Instructor: Alexander,Jennifer Kams
Description: The history of science and technology offers significant episodes for ethical analysis. This course presents topics such as the historical differentiation between natural and moral philosophy as exemplified in the works of Francis Bacon and early scientific academies; ethical aspects of preindustrial technological societies; a variety of ethical systems based on scientific and technological possibilities such as utilitarianism, social Darwinism, and eugenics; the development of engineering ethics; ethical problems in scientific research such as the Tuskegee experiments; the role of science and technology in National Socialist Germany; ethical implications of advanced weapons systems, such as nuclear weapons; the development or codes of ethics in engineering; and ethical issues in genetic research and engineering. Students will take part in small group discussions of weekly assigned readings. Students in the sciences, engineering, and medicine are welcome, as are students from the social sciences and humanities. The course fulfills historical perspective core curriculum and citizenship and public ethics theme requirements.
Style: 50% Lecture, 16% Film/Video, 34% Discussion.
Grading: 15% mid exam, 15% final exam, 45% reports/papers, 10% class participation. Please note that there are two midterm exams, each worth 15% of the course grade. There are three short papers, each worth 15% of the course grade.
Exam Format: Exams combine short answer questions, designed to test specific knowledge, and essay questions, that allow students to synthesize material.

HSCI 3714 Technology and Civilization: Stone Tools to Steam Engines
4 credit(s); Credit will not be granted if credit has been received for: HSCI 1714; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
Instructor: Thomas,Mary Margaret
Description: Technology is an enormous force in our society, and this course asks how it became so important. We explore the historical background, development, and character of the most powerful technological systems the world has known, from pre-historic stone tool societies, through Egypt and the pyramids, ancient Greece and Rome, the explosion of Islam, and the dynamic and often violent technologies of medieval Europe. In this class, you will get to know your fellow students and find out what their interests are, and you will discuss historical problems with them in small groups and in discussion sections. You will listen to lectures and see films about particular technologies, and you will learn to ask key questions about each technology; who was involved? what were the circumstances? The course is designed for undergraduates from a variety of backgrounds, including engineering, literature, history, business, and the sciences. The course fulfills historical perspective core curriculum and citizenship and public ethics theme requirements.
Style: 55% Lecture, 35% Discussion.
Grading: 30% mid exam, 30% final exam, 15% reports/papers, 15% other evaluation. Discussion Sections; 10% Small groups
Exam Format: Combination of short answer and essay questions.

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 Perspective Theme;
Instructor: Allchin,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.
Style: 10% class participation. attendance
Grading: 25% exam, 25% final exam, 25% reports/papers, 25% class participation.
HSCI 5242 The Darwinian Revolution
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 Perspective Theme;
Instructor: Janssen, Michel
Description: This class is the second part of a two-semester introductory survey of the history of science. The two parts can be taken independently of one another. This class covers a selection of developments in physics, chemistry, biology, and geology from the 18th-20th C. We examine the reasoning of some of the leading scientists involved, while being sensitive to the broader social and cultural contexts in which they worked. We also pay attention to the ways in which we obtain knowledge in the history of science. To allow for meaningful analysis of the material, the course is clustered around a few pivotal episodes: the chemical revolution of the late-18th C., the Darwinian revolution of the 19th C and the relativity and quantum revolutions of the early-20th C. We also study the impact of these scientific developments on society. In particular, we look at the reaction of various religious groups to Darwin’s theory and at the development of nuclear weapons made possible by the development of modern physics. We pay special attention to the increasingly international character of science during the period covered in this class, while emphasizing differences between the developments in various countries (notably Britain, Germany, France, and the United States). The objective of the course is to give you a better understanding not just of the historical development of scientific ideas but also of the role science plays in modern societies by tracing how it came to play that role.
Style: 75% Lecture, 25% Discussion.
Grading: 10% mid exam, 10% final exam, 65% reports/papers, 5% class participation, 10% other evaluation. attendance
Exam Format: a combination of short essay questions and multiple choice (old exams will be made available)

HSCI 4121 History of 20th-Century Physics
3 credit(s); prereq general physics or instr consent; Credit will not be granted if credit has been received for: PHYS 4121;
Instructor: Janssen, Michel
Description: This course is an introduction to the work of historians and philosophers of science trying to trace the conceptual development of 20th-century physics. Our main focus will be on the development of relativity theory (both special and general) and quantum theory in the first quarter of the century. Special attention will be paid to the contributions of Albert Einstein. We will also study some episodes in the further developments of these fields: in nuclear physics in the 1930s, in particle physics in the 1970s, in both cases with special attention to the interplay between theory and experiment. Finally, we will look at the development of big bang cosmology and its marriage with particle physics in inflationary cosmology. Readings are taken from a variety of sources. General surveys are used to get us started on a particular topic. That will prepare us for more specialized literature in history and philosophy of science. We will also read (passages from) some of the seminal texts written by the physicists we will study, both to get some of the flavor of their work and to evaluate interpretations and reconstructions of these texts offered in the historical and philosophical literature.
The course is aimed at upper-level undergraduate and graduate students in physics, history of science, and philosophy of science, but should be of interest to other students with a strong interest in 20th-century physics as well.
Style: 90% Lecture, 10% Discussion.
Grading: 10% class participation, 90% other evaluation.
take-home essays/paper (grad students)
Exam Format: Take-home essay

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 Perspective Theme;
Instructor: Janssen, Michel
Description: This class is the second part of a two-semester introductory survey of the history of science. The two parts can be taken independently of one another. This class covers a selection of developments in physics, chemistry, biology, and geology from the 18th-20th C. We examine the reasoning of some of the leading scientists involved, while being sensitive to the broader social and cultural contexts in which they worked. We also pay attention to the ways in which we obtain knowledge in the history of science. To allow for meaningful analysis of the material, the course is clustered around a few pivotal episodes: the chemical revolution of the late-18th C., the Darwinian revolution of the 19th C and the relativity and quantum revolutions of the early-20th C. We also study the impact of these scientific developments on society. In particular, we look at the reaction of various religious groups to Darwin’s theory and at the development of nuclear weapons made possible by the development of modern physics. We pay special attention to the increasingly international character of science during the period covered in this class, while emphasizing differences between the developments in various countries (notably Britain, Germany, France, and the United States). The objective of the course is to give you a better understanding not just of the historical development of scientific ideas but also of the role science plays in modern societies by tracing how it came to play that role.
Style: 75% Lecture, 25% Discussion.
Grading: 10% mid exam, 10% final exam, 65% reports/papers, 5% class participation, 10% other evaluation. attendance
Exam Format: a combination of short essay questions and multiple choice (old exams will be made available)

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: Barnhart, Megan K.
Description: This course is a survey of the history of science in American society and culture. We begin with Native American and European ways of understanding nature as well as the challenges and opportunities provided by North America as a place and cultural nexus. We will examine the role that science played in shaping the political ideology of the Founding Fathers and our Constitution. This course will investigate how the practice of science in America has changed over time, how and why scientific institutions were established, how the relationship between scientists and government has evolved, and how the access to scientific education has changed. We will also explore how science is reflected in American popular culture, and the curious relationship between science and religion in the United States. This course meets the requirement for diversity and will pay particular attention to issues of gender, ethnicity, and related topics in terms of both participation in and implications of science.
Style: 30% Lecture, 15% Film/Video, 30% Discussion, 15% Small Group Activities, 10% Web Based.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation.

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: Alexander, Jennifer K.
Description: The history of science and technology offers significant episodes for ethical analysis. This course presents topics such as the historical differentiation between natural and moral philosophy as exemplified in the works of Francis Bacon and early scientific academies; ethical aspects of preindustrial technological societies; a variety of ethical systems based on scientific and technological possibilities such as utilitarianism, social Darwinism, and eugenics; the development of engineering ethics; ethical problems in scientific research such as the Tuskegee experiments; the role of science and technology in National Socialist Germany; ethical implications of advanced weapons systems, such as nuclear weapons; the development or codes of ethics in engineering; and ethical issues in genetic research and engineering. Students will take part in small group discussions of weekly assigned readings. Students in the sciences, engineering, and medicine are welcome, as are students from the social sciences and humanities. The course fulfills historical perspective core curriculum and citizenship and public ethics theme requirements.
Style: 50% Lecture, 15% Film/Video, 34% Discussion.
Grading: 70% reports/papers, 30% in-class presentation.

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

HSCI 8125 Foundations for Research in the Scientific Revolution
A-F only, 3 credit(s); prereq Grad HSCI major or minor or instr consent;
Instructor: Shapiro, Alan E
Description: Student may contact the instructor or department for information.
HSCI 8920 Seminar: History of Biological Sciences
3 credit(s); prereq instr consent;
Instructor: Jones,Susan D.
Description: Student may contact the instructor or department for information.

HSCI 8930 Seminar: History of Technology
3 credit(s); prereq instr consent;
Instructor: Alexander Jennifer Karns
Description: The IRON MAIDEN: TECHNOLOGY, COERCION, AND THE BODY. The iron maiden is the symbol of torture, the most extreme variety of physical coercion. This seminar uses categories in technology studies (esp. concerning the invention, construction, and use of technologies) to analyze the history of technologies of coercion and strategies of resistance to them from the early modern period through the twentieth century. Torture is only one of the seminar’s themes; also at issue are perceptions of criminality and urban design, discipline in the industrial and post-industrial workplace, quarantines as a public health response to disease, and the physical culture of military and athletic training. The seminar will also consider the metaphor of the body and the rhetoric of coercion that characterized much of early modern science, for example in Francis Bacon’s depiction of nature as a body to be tortured into revealing her secrets. We will conclude with a discussion of the coercion of the personal body within the larger context of violence sanctioned by the state, for example in the genocidal practices of the violent twentieth century. Other case studies will be chosen according to student interest.
Style: 90% Discussion, 10% Student Presentation.
Grading: 50% reports/papers, 50% class participation. Please note that the class participation grade includes short presentations.

HMNG 1012 Beginning Hmong
5 credit(s); prereq 1011; Credit will not be granted if credit has been received for: HMNG 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 Xyaum Nyeem Ntawv Hmong Dawb. You can find Basic Hmong Book One at the Bookstores on Campus and Phau Xyaum 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.

HMNG 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: HMNG 4006;
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) strengthen the students’ ability to communicate and negotiate meanings in basic 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.

HMNG 3022 Intermediate Hmong
5 credit(s); prereq 3021; Credit will not be granted if credit has been received for: HMNG 4004;
Instructor: Vang,Bee
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 tasks in simple 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: LeYang,Maxwell
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
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 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 content of the course continues 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 the semester include: 1. Different forms of verbs 2. Gender indications 3. At school, at work, and 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 Xyaum Nyeem Ntawv Hmong Dawb. You can find Basic Hmong Book One at the Bookstores on Campus and Phau Xyaum Nyeem Ntawv Hmong Dawb at Paradigm in Dinky Dome. Legend: * = Required
Style: 60% Lecture,
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.

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: Vang, Bee
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 4006 Accelerated Intermediate Hmong
3 credit(s); prereq 4003, 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) strengthen the students' ability to communicate and negotiate meanings in basic 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.

Honors Seminar
20 Nicholson Hall
Spring 2008
HSEM 2010H Honors Seminar: Lying and Cheating in Public Life
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq [Fr or soph with less than 60 cr], honors; Instructor: Root, Michael D
Description: We look at the different ways people can be dishonest and pay special attention to deception and lying in public life. Among the questions we address are: Does good ever come from lying? Do public officials lie more now than they did before? We will read what scholars have said about lying but also read a play, short story and novel that shows us how lying works.

HSEM 2020H Honors Seminar: Medieval Travel: East and West
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq [Fr or soph with less than 60 cr], honors; Instructor: Reyerson, Kathryn L
Description: This course examines travel in the Middle Ages through the topics of pilgrimage, crusade, exploration, and trade. The central theme will be cross-cultural exchange and conflict. Students will examine problems of ethnocentrism, alterity, and identity. European travel accounts, crusade chronicles, Jewish travelers, and Arab geographers will provide the bulk of the primary source reading. A particular focus of the course will be the ancient silk road leading across Asia, which was, in fact, various routes by which merchants traveled with their goods, especially silks and other valuable commodities East to West. Travel writing as a genre will be explored. Students will be introduced to historical interpretation. Marco Polo will serve as a specific case study because his book of travels raises useful issues about travel and travel writing, and the survival of evidence. Students will keep a journal of their vicarious adventures. They will carry out map exercises in the James Ford Bell Library, review films, and do a Web assignment comparing Polo and Ibn Battuta.

HSEM 3020H Honors Seminar: Getting Lost With Kafka
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prereq [Jr or sr], honors; Instructor: Morris, Leslie C
Description: This seminar will provide an in-depth reading of Kafka's work that will situate Kafka at the crossroads of European modernity and within the debates about Jewish culture and identity in Prague. We will consider questions such as the relationship between Jewish subjectivity and Jewish text; Deleuze and Guattari's formulation of Kafka's work as exemplary of a "minor" literature; the relationship between Jewish text and the law; and the tropes of disorientation, travel, dislocation, displacement, and "getting lost" in Kafka's work. Kafka's work has generated an enormous body of critical reflection from various corners of critical and literary theory. We will explore these responses to Kafka, and also take into account the various "after-lives" Kafka has engendered in contemporary art, film, and literature, from Andy Warhol's silk-screens of Kafka to the work of Haruki Murakami. In addition to works by Kafka, we will also read critical and theoretical works by Walter Benjamin, Adorno, Sartre, Lukacs, Canetti, Blanchot, Gershom Sholem, Derrida, Deleuze and Guattari.

HSEM 3030H Honors Seminar: 3 Segregated Academic Worlds:
Econ., Hum., Ecology
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq [Jr or sr], honors; Instructor: Noble, David W
Description: In this course we will analyze the concepts of space and time used by current academic economists, humanists, and ecologists. Economists see a global marketplace characterized by a pattern of timeless natural laws. Within the perpetual equilibrium of this space, constant progress or linear time can take place. In contrast, many humanists who identify with post modernism see shifting patterns of timeful cultures as the only environment. In these timeful spaces the experience of linear time is impossible. For economists and humanists the theoretical choice seems to be either that of timeless nature or timeful culture. In contrast, ecologists see human culture as always participating within a nature that is timeful. This also is a space in which linear time and progress are impossible.

HSEM 3040H Honors Seminar: The Museum Machine
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prereq [Jr or sr], honors; Instructor: Werry, Margaret L
Description: There is a museum for nearly every academic field, from museums of national or natural history to the zoo, the arboretum, or the observatory. Museums are also a growing, innovative sector of the entertainment economy that rivals the sports industry in terms of sheer visitor numbers. Why are museums such an important part of public culture, both in America and throughout the world? Where did the idea of the museum come from, and why did they take the form we recognize today? How do museums elect what aspects of the living world (indeed, the universe!) and its past to represent within their walls and what to exclude, which stories to tell and how? What are the issues facing those museums that have living people, divided communities, or contested histories as their "objects"? In this course, we will engage with these questions by reading about museums, heritage sites, and exhibitions from around the world, as well as exploring some of the major controversies surrounding particular exhibitions in recent years and viewing documentation of artistic experiments in or about museums. We will talk with representatives of major Minneapolis based museums and heritage sites, and freelance artists and curators who create museum displays.

HSEM 3050H Honors Seminar: Wonder Women: Art & Technology 1968-2008
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq [Jr or sr], honors; Instructor: Willow, Diane
Description: Wonder: Women: Art and Technology 1968 - 2008, will convene three generations of artists whose creative work is integrally engaged with technology. The impetus for this symposium is the timely need to bring together the vanguard generation of women who have had a profound and often understated influence in the creative realm of Art and Technology. The forty-year span from 1968 ? 2008 highlights their work and their influence on the artistic inquiry of the two generations of women who follow.

HSEM 3060H Honors Seminar: Adoption in Literature: Real and Imagined
A-F only, 3 credit(s), max credits 9, 3 repeats allowed; prereq [Jr or sr], honors; Instructor: Zagar, Monika
Description: This course will look at issues related to adoption as described by those who became part of it willingly or unwillingly. The family will be examined as a flexible and changeable framework for exploration of identity, kinship, and love. While the students will read several texts from the social sciences, the instructor believes that literature might be a better venue for exploration of the personal details of this often-painful process. Ranging from descriptions of a search for closure or pursuit of biological ties to a bold reinvention of daily identity and family, the assigned texts offer a moving portrait of a new venue for exploration of the personal details of this often-painful process. Werry, Margaret L

This information is accurate as of 9/15/2008 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 3070H Honors Seminar: Visual Perceptual Illusions
A-F only, 3 credit(s); max credits 9, 3 repeats allowed; prereq [Jr or sr], honors; Instructor: He.Sheng
Description: Humans constantly receive and process a vast amount of sensory input. Among the sensory abilities, vision provides arguably the richest information about our intermediate and distal environment. While visual processing is amazingly efficient and accurate, sometimes what we perceive is different from the physical reality. When this happens, we perceive visual illusions. The study of the conditions under which visual illusions arise and their mechanisms will help us understand how vision normally works. In this course, we will discuss many types of visual illusion and their implications. Students are encouraged to report their own observations and propose possible explanations with the goal of cultivating the habit of careful observations and critical thinking. We will also discuss potential individual and group (including cultural) differences in perceiving visual illusions. Students will be required to write a paper describing one of their own "illusions" observations, and to propose a plausible explanation for the illusion based on principles of visual processing and perception.

HSEM 3080H Honors Seminar: (Mis) Representing Africa
A-F only, 3 credit(s); prereq [Jr or sr], honors; Instructor: Sugnet,Charles J
Description: This seminar will start by analyzing some stereotypes of Africa and Africans in literature, in travel writing, in film, in photography, and in museum exhibits, tracing the relationships between power and representation. Thebulk of the course, however, will be devoted to examination of postcolonial representations of Africa by Africans, including some West African novels, several African feature films, the recent Africa Remix art exhibit, and a selection of Afropop music and music videos. The seminar will investigate links between changes in the way Africa is represented and changes in political and economic power relations. Ultimately the seminar hopes to discover the ways in which, for North Americans of all colors, "Africa" is not just a faraway place but is part of the sign system through which they constitute themselves on a daily basis. Attention will be paid also to the ways in which certain academic disciplines represent Africa and to the place of Africa and "the primitive" in the intellectual structure of those disciplines. By looking at some African self-representations not widely seen in "the West," it will attempt, not merely to contrast them dualistically with the "Western" ones, but also to read the tensions and contradictions internal to African representations of Africa.

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: Provides a foundation in soils; botany; entomology, plant pathology; indoor, herbaceous, and woody plants; lawns; fruits; vegetables; pesticides; and wildlife. Geared at an introductory level, with an emphasis on Extension publications and resources useful in answering consumer horticulture questions. (No prereq. Participants who wish to volunteer as Master Gardeners must apply and be accepted into their local county Extension Master Gardener programs. Non-volunteers take the class for personal or professional development and register directly with the University College). Additional sections of Hort 1003 will be offered in Greater Minnesota. Call (612) 443-2460, ext. 263 for more information.
Style: 95% Lecture. 5% Discussion.
Grading: 25% mid exam, 25% final exam, 25% special projects, 25% other evaluation. Attendance
Exam Format: Multiple choice, short answer

HORT 1003 Master Gardener Core Course: Horticulture for Home & Garden
3 credit(s);
Instructor: Meyer,Mary Hockenberry
Description: Provides a foundation in soils; botany; entomology, plant pathology; indoor, herbaceous, and woody plants; lawns; fruits; vegetables; pesticides; and wildlife. Geared at an introductory level, with an emphasis on Extension publications and resources useful in answering consumer horticulture questions. (No prereq. Participants who wish to volunteer as Master Gardeners must apply and be accepted into their local county Extension Master Gardener programs. Non-volunteers take the class for personal or professional development and register directly with the University College). Additional sections of Hort 1003 will be offered in Greater Minnesota. Call (612) 443-2460, ext. 263 for more information.
Style: 95% Lecture. 5% Discussion.
Grading: 25% mid exam, 25% final exam, 25% special projects, 25% other evaluation. Attendance
Exam Format: Multiple choice, short answer

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 and have knowledge of the following concepts: The
University of Minnesota - Course Guide for Twin Cities Campus

Spring 2008

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, planting, 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 3036W 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, crop production, 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. - Design 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, Ill., Albert Henry
Description: Student may contact the instructor or department for information.

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: Porter, Paul M
Description: Student may contact the instructor or department for information.

HORT 4000 International Experiences in Horticultural Science
3 credit(s), max credits 6; prereq 1001 or instr consent; Meets CLE req of International Perspect Theme;
Instructor: Meyer, Mary Hockenberry
Description: Student may contact the instructor or department for information.

HORT 4000H International Experiences in Horticultural Science: Honors
3 credit(s), max credits 6; prereq [1001 or instr consent], honors; Meets CLE req of International Perspect Theme;
Instructor: Meyer, Mary Hockenberry
Description: Student may contact the instructor or department for information.

HORT 4015 Advanced Woody and Herbaceous Plant Topics: Indoor Plants
A-F only, 1 credit(s), max credits 7, 7 repeats allowed; prereq 1015;
Instructor: Erwin, John E
Description: Student may contact the instructor or department for information.

HORT 4015 Advanced Woody and Herbaceous Plant Topics: Flowering Trees and Shrubs
A-F only, 1 credit(s), max credits 7, 7 repeats allowed; prereq 1015;
Instructor: Hokanson, Stan C
Description: Student may contact the instructor or department for information.

HORT 4021 Landscape Design and Implementation I
4 credit(s); prereq [1001, 1015] or instr consent;
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 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

HORT 4023 Landscape Design and Implementation II
A-F only, 4 credit(s); prereq 4021;
Instructor: Calkins, PhD, James Bruce
Description: Please see Course Guide for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit(s)</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 4023</td>
<td>Landscape Design and Implementation II</td>
<td>A-F only, 4</td>
<td>prerequisite 4021;</td>
<td>Calkins, PhD James Bruce</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>HORT 4063</td>
<td>Turfgrass Science</td>
<td>A-F only, 3</td>
<td>prerequisite 4061;</td>
<td>Watkins, Eric</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>AGRO 4401</td>
<td>Plant Genetics and Breeding</td>
<td>4</td>
<td>prerequisite Biol 1009 or equiv grad</td>
<td>Instructor: Thill, Christian A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>HORT 5007</td>
<td>Advanced Plant Propagation</td>
<td>3</td>
<td>prerequisite 1001;</td>
<td>Instructor: Cohen, Jerry D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>HORT 5007</td>
<td>Advanced Plant Propagation</td>
<td>3</td>
<td>prerequisite 1001;</td>
<td>Instructor: Cohen, Jerry D</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>HORT 5002</td>
<td>Public Garden Management</td>
<td>2</td>
<td>prerequisite 1001, 1015, 3002</td>
<td>Instructor: Olin, Peter Joel</td>
<td>Attendence: 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.</td>
</tr>
<tr>
<td>HORT 5131</td>
<td>Student Organic Farm Planning, Growing, and Marketing</td>
<td>S-N only, 1</td>
<td>prerequisite Master of agriculture in horticulture student;</td>
<td>Instructor: Porter, Paul M</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>HORT 6001</td>
<td>Master of Agriculture Project Planning</td>
<td>S-N only, 2</td>
<td>prerequisite 6001, instr consent;</td>
<td>Instructor: Calkins, PhD James Bruce</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>HORT 6003</td>
<td>Master of Agriculture in Horticulture Professional Experience Program: Internship</td>
<td>S-N only, 1-3</td>
<td>max credits 6; prerequisite Master of agriculture in horticulture student, instr consent; completed internship contract;</td>
<td>Instructor: Calkins, PhD James Bruce</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>HORT 8007</td>
<td>Extension Horticulture Practicum</td>
<td>1-5</td>
<td>max credits 5, 1 repeat allowed; prerequisite 9 grad cr in [ag or bio] science, instr consent;</td>
<td>Instructor: Smith, Alan G</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>HORT 8044</td>
<td>Manipulation of Plant Growth and Reproduction</td>
<td>2</td>
<td>prerequisite PBio 5412;</td>
<td>Instructor: Smith, Alan G</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>HORT 8090</td>
<td>Graduate Horticultural Research</td>
<td>1-12</td>
<td>max credits 18, 18 repeats allowed; prerequisite instr consent;</td>
<td>Instructor: Smith, Alan G</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

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Human Resource Development
425 VoTech

HRD 3001 Introduction to Human Resource Development
A-F only, 3 credit(s);
Instructor: Bartlett,Kenneth Russell
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: Bialek,Tani Keenlyne
Description: Student may contact the instructor or department for information.

HRD 3301 Introduction to Organization Development
3 credit(s); prereq Undergrad;
Instructor: Meyers,Keith
Description: Student may contact the instructor or department for information.

HRD 501 Foundations of Human Resource Development
1 credit(s);
Instructor: Jo,Sung Jun
Description: Student may contact the instructor or department for information.

HRD 502 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 503 Psychological Foundation of Human Resource Development
1 credit(s); prereq 5101;
Instructor: Pittelkow,Jill Louise
Description: Student may contact the instructor or department for information.

HRD 504 Systems Foundation of Human Resource Development
1 credit(s); prereq 5101;
Instructor: Kenny,Kevin J
Description: Student may contact the instructor or department for information.

HRD 511 Facilitation and Meeting Skills
1 credit(s);
Instructor: Knapp,Randall Joseph
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;
Instructor: Bialek,Tani Keenlyne
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: Christesen PhD,David Allen
Description: Student may contact the instructor or department for information.

HRD 5202 Training on the Internet
3 credit(s);
Instructor: Stavredes,Tina M
Description: Student may contact the instructor or department for information.

HRD 5301 Organization Development
A-F only, 3 credit(s);
Instructor: Christesen PhD,David Allen
Description: Student may contact the instructor or department for information.

Human Factors
1100 Mechanical Engineering

HUMF 5722 Human Factors Psychology
A-F only, 3 credit(s); prereq Grad student or instr consent;
Instructor: Stoffregen,Thomas
Description: We will cover some current topics in human factors as they are addressed from the point of view of the Ecological Approach to Human-Machine Systems. We will concentrate on in-class discussion of selected articles. We will begin with a brief consideration of general principles of the Ecological Approach to Perception and Action, and will proceed with "case studies," instances in which these principles are being applied to particular problems in human factors. Examples include flight simulation, the design of medical devices, Human-computer interface design (multiple application domains), virtual environments (and their side effects); Guest speakers include practicing experts in various domains.

Style: 60% Lecture, 20% Discussion. Student PPT presentations of research articles from the literature.
Grading: 40% reports/papers, 20% in-class presentation, 40% class participation.

Exam Format: N/A

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.

HORT 8270 Graduate Seminar
A-F only, 1 credit(s); prereq Grad major in [hort or applied plant sciences or ent or agro or plnt brdg or plnt path or soil] or instr consent; Credit will not be granted if credit has been received for: AGRO 8270;
Instructor: Tong,Cindy Bow San
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 plnt brdg or plnt path or soil] or instr consent;
Instructor: Thill,Christian A
Description: Student may contact the instructor or department for information.

HORT 8280 Graduate Seminar
A-F only, 1 credit(s); prereq Grad major in [hort or applied plant sciences or ent or agro or plnt brdg or plnt path or soil] or instr consent; Credit will not be granted if credit has been received for: AGRO 8270;
Instructor: Tong,Cindy Bow San
Description: Student may contact the instructor or department for information.
HRD 5301 Organization Development
A-F only, 3 credit(s);
Instructor: Bialek, Tani Keenlyne
Description: Student may contact the instructor or department for information.

HRD 5302 Managing Work Teams in Business and Industry
A-F only, 3 credit(s); prereq 2 core courses in HRD;
Instructor: Mirocha, John William
Description: Student may contact the instructor or department for information.

HRD 5409 Planning and Decision-Making Skills
1 credit(s);
Instructor: Smith, Robert Elijah
Description: Student may contact the instructor or department for information.

HRD 5410 Survey of Research Methods and Emerging Research in Human Resource Development
A-F only, 3 credit(s); prereq [Registered, in attendance] at conference of Academy of HRD;
Instructor: Brown, Ph.D., James M
Description: Student may contact the instructor or department for information.

HRD 5624 Sales Training
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: BIE 5624;
Instructor: Roseland, Denise Lynn
Description: Student may contact the instructor or department for information.

HRD 5626 Customer Service Training
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: BIE 5626;
Instructor: Hagen, Marcia Sue
Description: Student may contact the instructor or department for information.

HRD 5626 Customer Service Training
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: BIE 5626;
Instructor: Prueipibultham, Oranuch
Description: Student may contact the instructor or department for information.

HRD 5627 Management and Supervisory Development
3 credit(s); Credit will not be granted if credit has been received for: BIE 5627;
Instructor: Meyers, Keith
Description: Student may contact the instructor or department for information.

HRD 8301 Advanced Organization Development
A-F only, 3 credit(s); prereq 5301;
Instructor: Ardichvili, Alexander A
Description: An in-depth investigation of organization development research and a critical review of selected and innovative practices. The course is a primary elective for HRD doctoral students focusing on OD and is a required course for students entering the HRD M.Ed., M.A., Ed.D., or Ph.D. program who have already taken HRD 3301 or 5301 Organization Development, or its equivalent. Course Objectives By the completion of this course, students will have: 1. Identified, articulated, compared, and facilitated a class session on views and approaches to a specific organization development issue 2. Discussed the OD issues in the broad, global context 3. Read research and writings foundational to the practice and theory of OD, as identified by the instructor, colleagues and individually 4. Synthesized and integrated the literature related to their identified OD topic, appropriate for conference presentation and submission to a refereed journal 5. Interconnect as a scholarly community regarding the implications of theory and practice in organization development Instructional Strategies The course will primarily utilize student-guided seminars, scholarly dialogue, and written assignments.

Human Resources and Industrial Relations
3-300 Carlson School of Management

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: Benroaune, 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: Munday, Kristen M
Description: This course takes a strategic and legal perspective on a range of staffing and selection topics. These include human resources planning; the role of job analysis; measurement and decision-making issues; recruiting and screening instruments; interviewing, ability testing, and other assessment methods; and job performance measurement.

HRIR 3032 Training and Development
2 credit(s); prereq CSOM upper div undergrad major grad;
Instructor: Munday, Kristen M
Description: This course will cover a variety of topics related to training and developing employees. Topics in training include training needs assessment, program design, transfer of training, and evaluation of training programs; topics in development include areas such as mentoring and career management.

HRIR 3041 The Individual in the Organization
2 credit(s);
Instructor: Paulson, Darla Jean Flint
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: Benroaune, 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 5061 Public Policies on Work and Pay
3 credit(s);
Instructor: Kleiner, Morris M
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: Davis, Mike
Description: Student may contact the instructor or department for information.

HRIR 8011 Using Data and Metrics in Human Resources and Industrial Relations
2 credit(s); prereq Grad HRIR major or dept consent;
Instructor: Kramer, Amit
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 MBA 6215 or grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Leslie, Lisa
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: Glomb PhD, Theresa M
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 instr consent, 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 instr consent] or 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 instr consent, grad HRIR major 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 8071 Labor Relations and Collective Bargaining
4 credit(s); prereq Econ 1101, Econ 1102 or instr consent, grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Budd, John W.
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: Seay, Steven A
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: Lindberg, Bob
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: 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 instr consent, HRIR PhD student or dept consent; grad majors must enroll A-F only;
Instructor: Manchester, Colleen Flaherty
Description: Student may contact the instructor or department for information.

1-4 credit(s), max credits 8; prereq 8061 or instr consent, HRIR PhD student or dept consent; grad majors must enroll A-F only;
Instructor: Manchester, Colleen Flaherty
Description: Student may contact the instructor or department for information.

Humanities
831 Heller Hall

HUM 1002 Humanities in the West II
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, Montaigne, Luther, Erasmus, and More. We will also study the impact of Italian and Northern Christian humanism. 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 also consider 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 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: 45% mid exam, 45% final exam, 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 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: 70% reports/papers, 15% in-class presentation, 15% class participation. 12 class meetings attendance required to pass course

Exam Format: 90% Discussion, 10% Student Presentation.

HUM 1005 Humanities in the West II

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 we will be reading Persuasion and discussing the recent film Becoming Jane. In addition to Persuasion, we also have a great lineup of books and topics from the nineteenth century. In the first half of the course, we shall 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 & early 20th centuries with emphasis on the themes of science and art, as we examine Darwin, Conrad, Chekhov, Nietzsche, Freud, Flaubert, Verne, and Proust. 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 1000 Topics: Freshman Seminar: Utopias and Anti-utopias

3 credit(s); prereq Fr;

Instructor: Kliger,George

Description: This seminar will explore a variety of visions of an ideal society (utopia) and its opposite (anti-utopia) in the writings of philosophers, novelists, psychologists, and social and cultural critics through the ages, from Plato to Orwell, to an example of feminist theory. With regard to each vision, topics such as fundamental assumptions about human nature, ideals and values worthy of implementation and their compatibility, the nature of human institutions and their potentials for good and evil, will be examined. A central concern of the seminar will be to assess the degrees of actual or potential correspondence of these visions to the real world of individual and social existence.

Style: 90% Discussion, 10% Student Presentation.

Grading: 70% reports/papers, 15% in-class presentation, 15% class participation. 12 class meetings attendance required to pass course
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, and how much of Dan Brown's popular novel is based on fact. Readings will include selected works of Machiavelli, Marlowe, Cervantes, Shakespeare, Montaigne, Luther, Erasmus, and More. We will also study the impact of Italian and Northern Christian humanism. 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 3005 Humanities in the West V
4 credit(s); Credit will not be granted if credit has been received for: HUM 1005; 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 1005. In this course we have a great lineup of books and topics from the nineteenth century. In the first half of the course, we shall examine themes of society and the Industrial Revolution in our study of Jane Austen, John Stuart Mill, Marx, Ibsen, Mary Shelley, and Henry David Thoreau. The second half will focus on the late 19th & early 20th centuries with emphasis on the themes of science and art, as we examine Darwin, Conrad, Chekhov, Nietzsche, Freud, Flaubert, Verne, and Proust. 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: 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

Industrial Engineering

IE 3041 Industrial Assignment I
A-F only, 2 credit(s); prereq 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); prereq 4042; Instructor: Marple, Virgil A
Description: Student may contact the instructor or department for information.

IE 4521 Statistics, Quality, and Reliability
4 credit(s); prereq Upper div or grad student or CNR; Instructor: Arora, Sant R
Description: Student may contact the instructor or department for information.

IE 4521 Statistics, Quality, and Reliability
4 credit(s); prereq Upper div or grad student or CNR; Instructor: Cooper, William L
Description: Student may contact the instructor or department for information.

IE 5080 Topics in Industrial Engineering: Discrete and Nonlinear Optimization
3 credit(s), max credits 3, 1 repeat allowed; prereq Upper div or grad student; Instructor: Rangarajan, Bharath
Description: Student may contact the instructor or department for information.

IE 5113 Systems Engineering II
A-F only, 4 credit(s); prereq 5111, a course on basic probability, [IT upper div or grad student]; Instructor: Monson, Robert James
Description:

IE 5513 Engineering Safety
A-F only, 4 credit(s); prereq Upper div IT or grad student; Instructor: Chaplin, Jonathan
Description: Occupational, health, and product safety. Standards, laws, and regulations. Hazards and their engineering control, including general principles, tools and machines, mechanics and structures, electrical safety, materials handling, fire safety, and chemicals. Human behavior and safety, procedures and training, warnings and instructions.
Style: 100% Lecture. Grading: 22% mid exam, 31% final exam, 5% reports/papers, 10% quizzes, 22% written homework, 10% class participation.

IE 5541 Project Management
4 credit(s); prereq 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); prereq Upper div or grad student; Instructor: Monson, Robert James
Description:

IE 5541 Project Management
4 credit(s); prereq Upper div or grad student; Instructor: Fiedler, Corrine Marie
Description: Student may contact the instructor or department for information.
IE 5545 Decision Analysis
4 credit(s); prereq 4521 or equiv;
Instructor: Gupta, Diwakar
Description: This course surveys normative theories of decision making, with a particular emphasis on structuring of hard decision problems arising in a variety of engineering, business, and public policy contexts. Topics discussed include decision trees, expected utility theory, screening prospects by dominance, assessment of subjective probability, multiple attribute utility, analytic hierarchy process, value of information, multistage decision problems, benchmarking with data envelopment analysis, and basics of game theory. The course is structured around the following themes: 1. What makes decision problems hard? Structuring of decision problems via decision trees. 2. Shortcomings of some commonly used decision criteria. 3. Value functions and utility functions. Expected utility maximization principle. 4. Risk attitudes, assessing utility functions and subjective probabilities. 5. Screening prospects by dominance. Portfolio selection. 6. Multiple attribute utility theory. 7. Analytical Hierarchy Process: Introduction, strengths and shortcomings. 8. Data Envelopment Analysis. Applications of DEA. 9. Introduction to game theory: Zero sum games. Cooperative and competitive games. Nash equilibrium. Stackelberg equilibrium. 10. Examples and cases from public policy and business sectors of economy. This course will be web enhanced but the URL is not yet available.
Style: 50% Lecture, 20% Discussion. Discussion of assigned case.
Grading: 25% mid exam, 35% final exam, 10% reports/papers, 10% in-class presentation, 20% problem solving. Depending on student needs, the final exam may be replaced by a project.
Exam Format: Questions that must be answered in detail.

IE 5551 Production Planning and Inventory Control
4 credit(s); prereq CNR or upper div or grad student;
Instructor: Benjaafar, Saif
Description: Student may contact the instructor or department for information.

IE 5553 Simulation
4 credit(s); prereq Upper div or grad student; familiarity with probability/statistics recommended;
Instructor: England, Darin Allen
Description: Student may contact the instructor or department for information.

IE 6534 Advanced Topics in Operations Research: Pricing and Revenue Management
4 credit(s), max credits 8; prereq 5531, 8532;
Instructor: Cooper, William L
Description: Student may contact the instructor or department for information.

IE 6773 Graduate Seminar
S-N only, 1 credit(s);
Instructor: Davidson, Jane H
Description: Student may contact the instructor or department for information.

IE 6774 Graduate Seminar
S-N only, 1 credit(s); prereq 8773;
Instructor: Davidson, Jane H
Description: Student may contact the instructor or department for information.

IE 8794 Industrial Engineering Research
1-6 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Benjaafar, Saif
Description: Student may contact the instructor or department for information.

IE 8953 Plan B
A-F only, 2 credit(s); prereq 8951;
Instructor: Korshagen, Uwe Richard
Description: Student may contact the instructor or department for information.

Information Networking
20 Classroom Office Building

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: Hertel, Christopher Ross
Description: Data is one of the most valuable commodities of the 21st century. Examine 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: Splitt, 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 [CSCI 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 Visio/EA, to work through a series of progressively more difficult database design problems.

Information and Decision Sciences
3-353 CarlSMgmt

IDSC 3001 Information Systems for Business Processes and Management
A-F only, 3 credit(s);
Instructor: Olson, Timothy Harold
Description: Student may contact the instructor or department for information.

IDSC 3001 Information Systems for Business Processes and Management
A-F only, 3 credit(s);
Instructor: Reily, Ken
Description: Student may contact the instructor or department for information.
IDSC 3001 Information Systems for Business Processes and Management
A-F only, 3 credit(s);
Instructor: Kampe, Doug
Description: Student may contact the instructor or department for information.

IDSC 3001 Information Systems for Business Processes and Management
A-F only, 3 credit(s);
Instructor: Ren, Yuqing
Description: Student may contact the instructor or department for information.

IDSC 4203 Information Technology Infrastructure
A-F only, 4 credit(s); prereq 3001;
Instructor: Sanyal, Pallab
Description: Student may contact the instructor or department for information.

IDSC 4204 Managing Information Services
A-F only, 4 credit(s); prereq 3202;
Instructor: Adams, Carl Robert
Description: Student may contact the instructor or department for information.

IDSC 4401 Information Security
A-F only, 2 credit(s);
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: 20% final exam, 35% special projects, 45% quizzes. 3 quizzes at 15% each, 2 projects: one at 15%, and one at 20%
Exam Format: T/F w/ explanation Multiple choice Short Answer

IDSC 4431 Advanced Database Design
A-F only, 2 credit(s); prereq 3202;
Instructor: Everest Gordon C
Description: Student may contact the instructor or department for information.

IDSC 4490 Information Systems Special Topics: Accounting and Information Systems
A-F only, 2 credit(s), max credits 10, 5 repeats allowed;
Instructor: Council III, Claude L
Description: Student may contact the instructor or department for information.

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: Social computing technologies such as online communities, blogs, wikis, and social networking systems, have dramatically changed the way people interact and collaborate online. Across a variety of industries, firms are increasingly considering how they can use and profit from the development of social computing technologies. In this course, we will examine issues associated with business use of social computing technologies, including (1) the characteristics of key social computing technologies (2) the nature and development processes of online communities, (3) the business models underlying successful social computing ventures such as MySpace, YouTube, Facebook, and Wikipedia, and (4) the approaches to evaluate, apply, and manage these technologies for various business purposes. This course is of relevance across disciplines, and the instructor welcomes students from all Carlson School majors as well as students from other colleges.

Style: 60% Lecture, 10% Discussion, 10% Small Group Activities, 5% Student Presentation, 5% Demonstration, 10% Guest Speakers.
Grading: 20% reports/papers, 20% special projects, 15% quizzes, 5% attendance, 20% in-class presentation, 20% class participation.

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: Riggins, Frederick J
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: Ray, Gautam
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;
Instructor: Adomavicius, Gediminas
Description: Student may contact the instructor or department for information.

IDSC 6421 Financial Information Systems and Technology
A-F only, 2 credit(s); prereq MBA student;
Instructor: Riggins, Frederick J
Description: Student may contact the instructor or department for information.

IDSC 6423 Enterprise Systems
A-F only, 2 credit(s);
Instructor: Chervany, Norman Lee
Description: Student may contact the instructor or department for information.

IDSC 6490 Advanced Topics in MIS: Business Intelligence
A-F only, 2 credit(s), max credits 10, 5 repeats allowed;
Instructor: Adomavicius, Gediminas
Description: Student may contact the instructor or department for information.

IDSC 6491 Independent Study in Information Systems
A-F only, 1-4 credit(s), max credits 4, 1 repeat allowed;
IDSC 8003 Accounting and Information Systems  
A-F only, 4 credit(s); prereq MAcc student;  
Instructor: Council III, Claude L  
Description: Student may contact the instructor or department for information.

IDSC 8721 Behavioral Decision Theory  
2 credit(s), max credits 4, 1 repeat allowed; prereq Business admin PhD student or instr consent; offered alt yrs;  
Instructor: Curley, Shawn P  
Description: How do we go about making decisions and the judgments on which they are based? What are some of the biases to which we are prone in making choices and judgments, and how do they arise? Can we improve upon our decision practices? Questions like these motivate and frame research in behavioral decision making. A large portion of the covered research can be conceptualized as arising from origins in normative decision theory. Normative decision theory represents decision making in terms of preferences over consequences and beliefs about possible events. In order to put this theory into practice, several descriptive components must come from the decision makers: their preferences, their judgments concerning the possible contingencies that might arise, and the variables/factors/actions that comprise the decision structure—the relevant elements for making the decision. Behavioral decision theory is interested in these descriptive components, and the cognitive processes by which they arise and affect choice. The course is a graduate level treatment of topics in decision theory from a behavioral perspective. The course will be primarily in seminar format. We will look at both traditional and current research in the field in an attempt to understand and integrate some of the major models and methodologies employed in the field of behavioral decision theory. The course covers models and issues of preference, judgment, and uncertainty. We will begin by going through the following text: Yates JF. (1990). Judgment and decision making. Englewood Cliffs, NJ: Prentice Hall. Beginning with Week 3 of the course, we will use our class time to discuss original journal articles on selected topics. As an example, you can view the course schedule from the last time the course was taught linked from my home page: http://umn.edu/~curley. Auditors are welcome; please contact the instructor with any questions about the course.  
Style: 5% Lecture, 95% Discussion.  
Grading: 50% reports/papers, 10% written homework, 40% class participation.

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: 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: Ray, Gautam  
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: Adams, Carl Robert  
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: Marasteanu, Mihai  
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: Preston, Howard Denis  
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: Harkins, Arthur M  
Description: Student may contact the instructor or department for information.

ISE 8105 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.

ISE 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 ?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.

IS 5950 Special Topics: Emotional Responses to Innovation
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.

Insurance and Risk Management
3-300 Carlson School of Management

INS 4100 Corporate Risk Management
2 credit(s); prereq credit will not be granted if credit received for: 5100; Instructor: Whitman, Andrew Franklin

Description: Theory applied to Enterprise Risk Management (ERM) practice. Guest industry practitioners demonstrate as students learn how to apply the risk management process of identifying, assessing, controlling, financing and monitoring risks from all sources to increase value to all stakeholders. Risk managing cash flow, human resources, intellectual and tangible property, liability, and worker’s compensation by application of risk control and risk financing tools, including insurance.

Students learn to serve as consultants in teams presenting the risk management process to a live client company

INS 4200 Insurance Theory and Practice
2 credit(s); prereq credit will not be granted if credit received for: 5200; Instructor: Whitman, Andrew Franklin

Description: An introduction to insurance theory and practice and to careers of actuary, corporate risk manager, insurance agent/broker/consultant, underwriter, and loss adjuster. Types of insurance: liability, crime, workers’ compensation, and property insurance. Insurance practices of pricing, marketing,
underwriting, and claims administration. These functions are
applicable to all types of insurance and to self insurance in large
organization. Life and health insurance; they are covered in Ins
4101 & Ins 4201.

**INS 4201 Personal Financial Management**

2 credit(s); prereq credit will not be granted if credit
received for: 5201;

**Instructor:** Whitney, Andrew Franklin

**Description:** Personal Financial Planning; Covers steps in the
financial planning process, cash flow analysis and priorities
(share, save, spend), debt management, taxes, insurance,
managing your business, employee benefits, investments,
retirement funding, and estate planning. Assignments: Using
quicken/money software, writing your personal financial plan and
cash flow analysis, posting in Vista Discussions, answering
on-line quizzes, and team participation with guest speakers.
Industry professionals address the class on the key topics.

**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
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:** 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.

**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 will invite you to think about your own
identity as you return to a place of higher learning, in this case
the University of Minnesota. This theme of identity and place will
be our focus with special emphasis on the natural world. You will
learn to view thoughts about personal identity and how writers
inhabit and reflect on place through a multidisciplinary lens as we
read authors from an array of disciplines. We will begin by
discussing ancient and modern myth in relation to nature and
how myth and storytelling relate to the creation of identity and
meaning in our lives. We will then consider some perceptions of
nature since the 18th century and these will be organized
topically. This course is designed to help you re-acclimate to a
university environment and to select a program of study in the
Inter-College Program. Although we will be focusing on the
environment, your writings will be self-reflective and will allow
you to do some self-exploration and to develop your investigative
and evaluative abilities as you consider your future at the
University.

**Inter-College Program**

**20 Classroom Office Building**

**ID 1201 Major and Career Exploration**

2 credit(s); prereq Fr or soph;

**Instructor:** Hanson, Matthew R

**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.

This information is accurate as of 9/15/2008 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. 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 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 3201 Career Planning
2 credit(s);
Instructor: Unliedt PhD,L.P.Stephanie 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 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 3205 Law School Exploration
2 credit(s);
Instructor: Whitney,Angie Schmidt
Description: Thinking about law school? This course will include information about law school, the legal profession, and which careers and specialties are available within the field of law. You'll also learn what you can do to help get accepted into law school. This course is designed primarily for sophomores and juniors.

ID 3551 Metro Internship Seminar: Corporate and Non-Profit Social Responsibility and Ethical Leadership
A-F only, 6 credit(s); prereq instr consent;
Instructor: Sandberg,Emma
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 actively 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 basics 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 3572 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 actively 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 basics 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 FraserH, 626-2044;
Instructor: Holliday,David Wallace
Description: In the Metro Urban Studies Term students actively 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 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 FraserH, 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. 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 3591, 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: Environmental Sustainability: Field Methods
A-F only, 2 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, 6 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 3993 Directed Study
1-4 credit(s), max credits 8, 8 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Hirt, Laurel Elizabe
Description: Student may contact the instructor or department for information.

IBUS 3001 International Business Topics: Principles of Marketing: A European Perspective
A-F only, 3 credit(s), max credits 12, 3 repeats allowed; prereq Consent of Carlson International Programs;
Instructor: Seltzer, Jon
Description: Student may contact the instructor or department for information.

IBUS 3010 International Business Topics: Introduction to Global Entrepreneurship
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 4020 International Business Topics: International Logistics & Supply Chain Management
A-F only, 3 credit(s), max credits 12, 3 repeats allowed; prereq Consent of Carlson International Programs;
Instructor: Seltzer, Jon
Description: Student may contact the instructor or department for information.

IBUS 5150 Managing in a Global Environment: Outsourcing and Offshoring
A-F only, 4 credit(s); prereq Consent of Carlson International Programs;
Instructor: Subramani, Mani R
Description: Student may contact the instructor or department for information.

IBUS 5170 China Seminar: An International Business Challenge
A-F only, 4 credit(s); prereq Grad student, consent of Carlson International Programs;
ITAL 3459W Senior Project
1 credit(s); Meets CLE req of Writing Intensive
Instructor: Ovan,Sabrina
Description: Student may contact the instructor or department for information.

ITAL 3502 Making of Modern Italy: From the Enlightenment to the Present
3 credit(s), max credits 12, 4 repeats allowed; prereq 3015; Credit will not be granted if credit has been received for: ITAL 5502
Instructor: Ovan,Sabrina
Description: Student may contact the instructor or department for information.

ITAL 3640 Topics in Italian Studies: The Baroque Epic: Tasso and Milton
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Watkins,John
Description: Nothing captured the spirit of the European Renaissance more dramatically than the effort of writers from Ferrara to Munster to write vernacular epics in the tradition of Virgil's Aeneid. Yet no effort more effectively exposed the futility of fashioning modern societies on recollections of antiquity. As early modern writers turned to the classical past, they discovered alien attitudes toward sovereignty, religion, gender, and sexuality that resisted assimilation to contemporary beliefs. This was particularly true for the two writers we will examine in this course, Toquato Tasso, the supreme Italian exemplar of the Counter-Reformation in all its baroque splendor, and John Milton, the perfect embodiment of the English Puritan Revolution. As we examine their appropriations of Virgilian models from opposition sides of the Protestant and Catholic divide, we will address topics ranging from sexual and spiritual discipline to the emergence of the early modern state. Readings will center on Virgil's Aeneid, Tasso's La Gerusalemme Liberata (The Liberation of Jerusalem), and Milton's Paradise Lost. Students enrolled for 3-level English credit may write either two 5-7 page exegetical papers or one extended research paper. A reading knowledge of Italian is recommended but not required. Those taking the course for 5-level Italian credit will read La Gerusalemme Liberata and selections from Discorsi dell'arte poetica e del poema eroico in the original and submit one 15-page paper written in Italian. All course meetings will be conducted in English.

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 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: Bray,Laura Smolizza
Description: Student may contact the instructor or department for information.

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

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

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carlone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Bray,Laura Smolizza
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Bray,Laura Smolizza
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Berge,Nels A
Description: Student may contact the instructor or department for information.

ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent ; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Carbone,Lucyann R
Description: Student may contact the instructor or department for information.
ITAL 4002 Beginning Italian
2 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ITAL 1002;
Instructor: Barbieri, Monica
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: Olivero-Agney, Anna B
Description: Student may contact the instructor or department for information.

ITAL 4000 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: Casarino, Cesare
Description: Student may contact the instructor or department for information.

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

ITAL 4002 Beginning Japanese
6 credit(s); prereq 1011; Credit will not be granted if credit has been received for: JPN 4002;
Instructor: Tazawa, Kenichi
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: Dradi Bower, Carlotta
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: 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: Barbieri, Monica
Description: Student may contact the instructor or department for information.

ITAL 5640 Topics in Italian Studies: Neorealism and the Cinema
3 credit(s), max credits 12, 4 repeats allowed; prereq Ital 3015;
Instructor: Casarino, Cesare
Description: Student may contact the instructor or department for information.
JWNST 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: Feinstei,Stephen
Description: The word "Holocaust" refers to the extermination of 6 million Jews and 500,000 Roma and Sinti (Gypsies) during the rule of National Socialism (NAZI) in Germany. Others labeled "undesirable" or "subhuman" were also exterminated in this process. In this course, particular attention will be given to the phenomenon of anti-Semitism, in both its religious and secular forms, to the relationship between mass murder or genocide and the growth of bureaucracy and technology, and to the challenges posed by the Holocaust for religious and humanistic beliefs and values. The course uses cross-disciplinary approaches, as well as documents, films and guest speakers.
Style: 90% Lecture, 10% Discussion.
Grading: 25% final exam, 70% reports/papers, 5% class participation.
Exam Format: Short answer and essay with choices. Study sheet given prior to exam.

JWST 3632W Jewish Women in the United States
3 credit(s); Credit will not be granted if credit has been received for: GWSS 3403W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Preil,Rev-Ellen
Description: Jewish Women in the United States

JWST 3900 Topics: Jewish Studies: The Moving Image and the Wandering Jew
A-F only, 3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Katz,Judith
Description: Examine the mogul system, watch films you've never heard of and some you know very well. Beginning with a glimpse at European and Yiddish films from the beginning of the last century, we will explore the mogul system in Hollywood; the star system, and discuss the images of Jews in mainstream and independent film as well as the people responsible for the manufacture of those images. Readings include An Empire of Their Own by Neal Gabler and assorted articles.
Style: 5% Lecture, 70% Film/Video, 20% Discussion.
Grading: 75% reports/papers, 25% class participation.

JWST 3900 Topics: Jewish Studies: Chivalry, Crisis, and Revival
A-F only, 3 credit(s), max credits 15, 5 repeats allowed;
Instructor: Lower,Michael T
Description: Far from being a dark and dismal age when nothing happened and life was "nasty, brutish, and short," the Middle Ages was a time of rapid and sometimes disconcerting social, cultural, and political change. The central and later medieval periods (c.1050-c.1500) witnessed a revolution in agricultural and commercial techniques, a movement away from and then a new embracing of city life, a flowering of notions of chivalry and courtly love, an aggressive expansion outward, an experimentation with representative political institutions, and a profound engagement with new forms of religious life. By the end of the Middle Ages, a distinctly European culture had emerged. Some of the chief legacies of this culture - parliamentary institutions, common law, the university, and the state - are significant because they are still a feature of western society today. But our primary aim will be to engage with medieval people in their own right. Topics will include: heresy and inquisition; Abelard and Heloise; the Crusades; medieval castles and cathedrals; the Black Death; the Peasants Revolt; the Hundred Years War; Joan of Arc; the Italian Renaissance; and the voyages of exploration. The course is suitable for majors, non-majors, and transfer students alike.
Style: 50% Lecture, 50% Discussion.
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 20% other evaluation. informal writing assignments
Exam Format: short answer and essay
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 a range of media institutions, cultures, and practices. One question guides our inquiry: How can we use mass media to improve our lives and the lives of others? To answer that question we must become knowledgeable consumers and producers of media. Students will gain knowledge by reading about the histories of various media, studying the results of media research, and investigating their own mediated experiences. Grades will be based on quizzes, concise media analysis writing assignments, and a reporting project. The reporting project, an experiment in ?citizen journalism?, will be conducted in support of Telling River Stories, a collaboration involving faculty and students from throughout campus.
Style: 25% Film/Video, 25% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Guest Speakers, 25% Web Based.
Grading: 35% reports/papers, 30% special projects, 35% quizzes.

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: Chang, Tsan-Kuo
Description: This course is designed 1) to survey various aspects of mass media industries, 2) to examine the theories and perspectives concerning the roles, functions and effects of mass communication at both the micro and macro levels, 3) to explore the domestic and international implications of mass media as social institutions for human and national relations and activities, and 4) to discuss the impact of new communication technologies on the convergence of form and content of traditional mass media. Through the text and video documentaries, we will look at the history, spirit, structure, and practices of a wide variety of mass media in the United States. We will critically examine the interplay among the mass media, individuals and society in terms of their psychological, cultural, social, political, and economic ramifications. The objective of this course is for us to become an informed user of the mass media and critic of their professions. The general topics to be covered include: media environment, mass communication processes and structure, media and society, media industries, communication technologies, social control and legal regulations, ethics, individual uses and media effects, and international and global communication.
Style: 50% Lecture.
Grading: curved, based on total points
Exam Format: Multiple choice

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;
Meets CLE req of Writing Intensive;
Instructor: Forde, PhD, Kathy Roberts
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: Stamm, Michael R
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: Meraney, Rachel Davis
Description: Student may contact the instructor or department for information.

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 need 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 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: Kokmen, Leyla Alev
Description: This course is designed to teach you the skills and standards you need to write basic news stories. We will cover the basic concepts that guide news writers - accuracy, brevity, fairness and speed - and you will be expected to learn how to use those tools to write with a clear, informative style. You will be expected to learn and employ proper journalistic forms and style, as well as proper English usage, grammar and spelling. You also will be expected to gather news accurately and comprehensively. This course includes two lecture periods per week, plus a lab to complete assignments related to the lecture. There will also be quizzes and other assignments and writing exercises.
Style: 60% Lecture, 40% Discussion.
Grading: 70% reports/papers, 20% quizzes, 10% class participation.

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: Sanders, Amy Kristin
Description: Student may contact the instructor or department for information.

JOUR 3102 Visual Journalism
A-F only, 3 credit(s); prereq [3004V or Concurrent registration is required (or allowed) in 3004W], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Jones, Julie M.
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: Meraney, Rachel Davis
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 find 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 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: McEnroe, Paul Joseph
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: Fukushima, Rhoda
Description: Student may contact the instructor or department for information.

JOUR 3155 Publications Editing
A-F only, 3 credit(s); prereq 3004W, 3101, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Anderson Jr., Gerald
Description: Student may contact the instructor or department for information.

JOUR 3173W Magazine Writing
A-F only, 3 credit(s); prereq 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: Student may contact the instructor or department for information.

JOUR 3173W Magazine Writing
A-F only, 3 credit(s); prereq 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: Golden, Gayle Celeste
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 types of stories editors want. 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); prereq [3004W or Concurrent registration is required (or allowed) in 3004V or Concurrent registration is required (or allowed) in 3004W], [jour major or mass comm minor or design comm premajor or design comm major or graphics design premajor or
JOUR 3201 Principles of Strategic Communication: Advertising
A-F only, 3 credit(s); prereq [3004V 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 design comm minor or design comm premajor or graphics design premajor or graphics design major or approved IDIM major or ICP major or BIS major];
Instructor: Wang, Kevin Y
Description: Student may contact the instructor or department for information.

JOUR 3202 Principles of Strategic Communication: Public Relations
A-F only, 3 credit(s); prereq [3004V 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: Therkelsen, David Jon
Description: Student may contact the instructor or department for information.

JOUR 3241 Creative Strategy and Copywriting
A-F only, 3 credit(s); prereq 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); prereq 3004W, [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Lutchyn, Yuliya Anatoliyivna
Description: Student may contact the instructor or department for information.

JOUR 3251 Strategic Communication Research
A-F only, 3 credit(s); prereq 3004W, [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Huh, Jisu
Description: Course Objectives: Strategic communication research helps provide information for advertisers, advertising agencies, and PR practitioners to understand their product, target audience, publics, and the factors which influence strategic communications to help them in making decisions. A major goal of this course is to teach you the importance of research in strategic communication and different types of research methods. Upon completion of this course, you should be able to: Understand the role of research in strategic communication. Understand the strategic communication research process. Apply quantitative and qualitative research methods to a real-world strategic communication situation. Understand social issues relating to strategic communication research, including the ethics of the research. Teaching methods: lecture and discussion. Textbook: Fortini-Campbell, Lisa (2001), Hitting the Sweet Spot, The Copy Workshop. Target audience: undergraduate, ad/PR majors.
Style: 80% Lecture, 20% Discussion.
Grading: 25% mid exam, 25% final exam, 15% reports/papers, 25% special projects, 10% class participation.
Exam Format: a combination of true-false, multiple-choice, fill-in-the-blank, and short answer questions

JOUR 3279W Public Relations Writing and Campaign Tactics
A-F only, 3 credit(s); prereq [3004V or 3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Nelson, Lynn Ingrid
Description: Student may contact the instructor or department for information.

JOUR 3279W Public Relations Writing and Campaign Tactics
A-F only, 3 credit(s); prereq [3004V, 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: Sichko, Martha Jones
Description: Student may contact the instructor or department for information.

JOUR 3231 Basic Media Graphics
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: 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 3231 Basic Media Graphics**
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:** 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 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 or 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): 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:** Husom,David Harold
**Description:** Student may contact the instructor or department for information.

**JOUR 3451 Electronic News Writing and Reporting**
A-F only, 3 credit(s): prereq 3004W, 3101, [jour major or approved IDIM major or ICP major or BIS major];
**Instructor:** Rajkumar,Roshini Anne
**Description:** Students will learn how to research, write and report different forms of electronic news stories including anchor readers, voiceovers, and packets within a framework of news judgment and news ethics. Students will become familiar with the basics of shooting and editing electronic news stories; and produce two full news packages for television. The course will compare and contrast television news writing with news writing for radio and online; and explore online news and information sites for electronic media.
**Style:** 15% Lecture, 15% Discussion, 70% Laboratory.
**Grading:** 50% special projects, 15% quizzes, 35% laboratory evaluation.

**JOUR 3451 Electronic News Writing and Reporting**
A-F only, 3 credit(s): prereq 3004W, 3101, [jour major or approved IDIM major or ICP major or BIS major];
**Instructor:** Brockert,Jerry
**Description:** Student may contact the instructor or department for information.

**JOUR 3551 Economics of New Media**
A-F only, 3 credit(s): prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval];
**Instructor:** Susan,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, eBay, 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% mid 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): 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:** Brazeal,Donald
**Description:** Jour3614 examines the history of communication through the window of changing media technology. Beginning with the earliest oral approaches to communication, the class will explore changes in what we communicate and how we communicate with the evolution of print, wired telecommunications, radio, television, computers and the Internet. The class is in part a study of history and in part the "doing" of history; therefore, research - in the form of class presentations and a final paper - is integral to the curriculum. Course materials will include a book of readings, a course packet and supplemental handouts. Exams will be drawn from those readings and from class lectures (which serve to complement rather than duplicate the written material). This class fulfills requirements for CLE's Historical Perspective Core; therefore, students are expected to learn and demonstrate basic historical research techniques in addition to studying the course material.
**Style:** 50% Lecture, 25% Discussion. Student presentations
**Grading:** 25% mid exam, 25% final exam, 30% reports/papers, 20% class participation.
**Exam Format:** True/false, multiple choice, short answer, essay

**JOUR 3741 People of Color and the Mass Media**
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 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): prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval];
**Meets CLE req of Social Science Core**;
**Instructor:** Pedelty,Mark Holmes
**Description:** Mass Media and Popular Culture is an exploration of the roles various media play in our lives. It is a study of how, what, and to what end music, films, television, games, and advertisements are produced and used. "Mediation" is examined as a process through which artists, producers, marketers, critics, and audiences create meaning. An ethical question guides us: what good can be done with, and in, media?
**Style:** 40% Lecture, 20% Film/Video, 30% Discussion, 10% Small Group Activities. Analysis of media, projects, and presentations
**Grading:** 30% reports/papers, 30% special projects, 40% quizzes.
**Exam Format:** multiple choice

**JOUR 3745 Mass Media and Popular Culture**
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 Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Schneeveis, Adina A.G. 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 [jour major, course appr on prog plan] or [pre-jour, adviser approval]; Meets CLE req of Citizenship/Publ Ethics Theme; Instructor: Ison, Christopher John 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 instructor consent;
Instructor: Forde PhD, Kathy Roberts Description: Student may contact the instructor or department for information.

JOUR 3991 Special Topics in Mass Communication: Context: Special Topic: Art & Science of Persuasion
A-F only, 3 credit(s), max credits 6; prerequisite Jour major or jour minor or approved IDIM major or ICP major or Bis major;
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 [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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 [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr 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; prerequisite [jour major or jour minor or approved IDIM major or ICP major or Bis major], instr consent, dept consent, college consent;
Instructor: Sullivan, Daniel Joseph Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 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: Huh, Jisu
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: Brazeal, Donald
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;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;
Instructor: Kokmen, Leyla Alev
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: Eightmey, 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: Huh, Jisu
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: 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;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;
Instructor: Stamm, Michael 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;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;
Instructor: Mersey, Rachel Davis
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: 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;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college 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;
prereq Jour major, dept consent;
Instructor: Leighton, Gordon
Description: To enroll in this one-credit 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;
prereq Jour major, dept 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: Joun major, dept consent; Instructor: Stone, Ken
Description: Student may contact the instructor or department for information.

JOUR 4171 Capstone: Covering the Arts
A-F only, 3 credit(s); prerequisite: [3004W, 3101, [jour major or approved IDIM major or ICP major or BIS major]; or instructor consent; Instructor: Sullivan, Daniel Joseph
Description: Student may contact the instructor or department for information.

JOUR 4193 Walter H Brovald and John Cameron Sim
Community Newspaper Practicum
A-F only, 3 credit(s); prerequisite: 3004W, [3101 or 3201], [jour major or approved IDIM or BIS or ICP]; Instructor: Schultz, Lee Ann
Description: Field-based practicum at community newspaper or special interest newspaper in metropolitan area. Students work directly with editors and reporters to produce news and features for possible publication in print or on Internet-based sites. Weekly meetings with instructors about assignments, readings, projects or discussions with working journalists at area community newspapers and special interest publications. Students spend a minimum of eight hours weekly on-site at assigned publications plus about four hours weekly working on assignments for the publication. Students will work out their own schedule with the assigned newspaper staff. Students should be journalism majors willing to commit time each week to the practicum.
Style: 25% Lecture. 75% practicum
Grading: 30% mid exam, 40% reports/papers, 30% class participation.
Exam Format: There are no exams

JOUR 4193 Walter H Brovald and John Cameron Sim
Community Newspaper Practicum
A-F only, 3 credit(s); prerequisite: 3004W, [3101 or 3201], [jour major or approved IDIM or BIS or ICP]; Instructor: Berg, Jon
Description: Field-based practicum at community newspaper or special interest newspaper in metropolitan area. Students work directly with editors and reporters to produce news and features for possible publication in print or on Internet-based sites. Weekly meetings with instructors about assignments, readings, projects or discussions with working journalists at area community newspapers and special interest publications. Students spend a minimum of eight hours weekly on-site at assigned publications plus about four hours weekly working on assignments for the publication. Students will work out their own schedule with the assigned newspaper staff. Students should be journalism majors willing to commit time each week to the practicum.
Style: 25% Lecture. 75% practicum
Grading: 30% mid exam, 40% reports/papers, 30% class participation.
Exam Format: There are no exams

JOUR 4242 Advertising Portfolio Development
A-F only, 3 credit(s); prerequisite: [3004W or 3004V], 3201, [3241 or 3321], [jour major or approved IDIM or ICP or BIS]; Instructor: Johnson, Jennifer M
Description: This course introduces students to advertising creative development and conceptual thinking. Students will work in teams that include account planners, copywriters, and art directors. They will develop creative strategy briefs and present ideas based on their strategies. At the end of the term, successful students will be able to apply practical creativity to advertising ideas and will have a basic understanding of how to put a book together to get a job in advertising.
Style: 30% Lecture, 20% Laboratory. This class is highly interactive. Students must contribute to class creative exercises and assignments during each meeting.
Grading: A midterm review and a final creative review, by advertising professionals, will help determine final grades. Completion of assignments and level of improvement will also weigh heavily on grade. Student participation is critical.

JOUR 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prerequisite: 3004W, [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major]; Instructor: Nelson, Lynn
Instructor: Instructor consent is required for information.
Description: Student may contact the instructor or department for information.

JOUR 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prerequisite: 3004W, [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major]; Instructor: Kucharski, Matthew John
Description: Student may contact the instructor or department for information.

JOUR 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prerequisite: 3004W, [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major]; Instructor: Eighmy, John
Description: This course examines a selection of 12 strategic communication cases related to communication campaigns in business, government, education, and community. WebCT is used for class slides and other materials.
Style: 50% Lecture, 50% Discussion.
Grading: 50% reports/papers, 40% special projects, 10% class participation. 12 executive summary case study write-ups and a group semester project.
Exam Format: No exams.

JOUR 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prerequisite: 3004W, [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major]; Instructor: Sichko, Martha Jones
Description: Student may contact the instructor or department for information.

JOUR 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prerequisite: 3004W, [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major]; Instructor: Paluta, Roman
Description: Student may contact the instructor or department for information.

JOUR 4261 Advertising: Media Strategy
A-F only, 3 credit(s); prerequisite: 3004W, [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major]; Instructor: Herzog, Earl Alphonse
Description: Student may contact the instructor or department for information.

JOUR 4263 Strategic Communication Campaigns
A-F only, 4 credit(s); prerequisite: [3004W or 3004V], [3201 or 3321], [jour major or approved IDIM or ICP or BIS]; Instructor: Johnson, Jennifer M
Description: This course introduces students to advertising creative development and conceptual thinking. Students will work in teams that include account planners, copywriters, and art directors. They will develop creative strategy briefs and present ideas based on their strategies. At the end of the term, successful students will be able to apply practical creativity to advertising ideas and will have a basic understanding of how to put a book together to get a job in advertising.
Style: 30% Lecture, 20% Laboratory. This class is highly interactive. Students must contribute to class creative exercises and assignments during each meeting.
Grading: A midterm review and a final creative review, by advertising professionals, will help determine final grades. Completion of assignments and level of improvement will also weigh heavily on grade. Student participation is critical.

This information is accurate as of 9/15/2008 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.

Spring 2008
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 9/15/2008 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 2008

JOUR 4272 Interactive Advertising
A-F only, 4 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval];
Instructor: Kalsi,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. Style: 70% Lecture, 30% Discussion. Grading: 30% mid exam, 15% reports/papers, 30% special projects, 10% class participation, 15% other evaluation. critical thinking exercises
Exam Format: a combination of multiple-choice, fill-in-the-blank, and short essays

JOUR 4274W Advertising in Society
A-F only, 3 credit(s); prereq Jour major or jour minor 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 req of Writing Intensive;
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 insure fair competition and to protect consumers. The last five weeks focus on social criticisms of advertising and the social responsibilities of advertising practitioners.
Style: 35% Lecture, 65% Discussion. Grading: 24% mid exam, 24% final exam, 43% reports/papers, 6% special projects, 3% class participation.
Exam Format: multiple choice, short answer, and essay questions.

JOUR 4302 Electronic Photojournalism
A-F only, 3 credit(s); prereq 3004W, 3102, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Zerby,Mike
Description: Jour 4302 is a basic skills course, designed to teach a journalism student the fundamentals of electronic photojournalism as practiced by newsrooms across many forms of media. The course will:1) create a foundation for understanding the historical, technical, aesthetic and ethical development of journalistic photography.2) discuss and practice the principles of communication as embodied in the profession of photojournalism, including how to: a)conceptualize and plan photo shoots, photo stories, and essays. b) research story ideas, develop shooting strategies, gain access to subjects. c) structure and present visual narratives in print and on the internet. d) enable a student to acquire some of the camera and computer skills necessary to practice the craft of electronic photojournalism, including some digital darkroom processing. e) involve students in executing photo assignments and experiencing frequent critiques, thus beginning the creation of a portfolio of journalistic photography suitable for job seeking. The content and direction of this course will not presume great prior knowledge or skills. However, students with experience may proceed to more distant horizons. All photographic assignments will all be done with digital equipment. The primary focus will be on achieving access, capturing content and accomplishing journalistic story telling. The course will refer to other reporting competencies such as: technology, press responsibility, cultural sensitivity and ethics.
Style: 30% Lecture, 20% Discussion, 50% Laboratory. Grading: 10% quizzes, 20% in-class presentation, 10% class participation, 60% problem solving.
Exam Format: performance on problem solving IS exam

JOUR 4451 Capstone: Advanced Electronic News Writing and Reporting
A-F only, 3 credit(s); prereq [3004W or 3004V], 3101, 3121, 3451, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Stone,Ken
Description: The emphasis of this course is researching, analyzing, synthesizing, and writing a sophisticated electronic news story or series of stories. Students will pursue in-depth research and writing projects in a variety of areas and on a variety of platforms, including websites, blogs, podcasts, video, and other electronic media. Students will develop and refine their skills in multimedia news production, including editing, design, and packaging. They will work in teams to produce digital content that demonstrates an understanding of news writing, reporting, and ethics. The course emphasizes the role of the electronic news writer in a rapidly changing media landscape. Students will also work on a research project that involves investigating a current issue or trend in electronic news writing and reporting. The project will culminate in a presentation to the class. Grading: 10% quizzes, 20% in-class presentation, 10% class participation, 60% problem solving.
Exam Format: performance on problem solving IS exam
reporting, shooting, writing and editing TV news packages. Students will learn to master the use of digital cameras and a desktop non-linear system. Students will also learn how to better write to video, to improve their voice work and on-camera performance. Students will research reports, shoot, write and edit TV news packages and create a resume tape. Students will also contribute reporting, writing, anchoring and other work for University Report. Learning Objectives . Write so that both audio and video are used to their maximum effectiveness. Master the basics of "shooting to edit" such as the correct use of wide shots, medium shots, close-ups and reverses. Use voice more naturally in reading news copy and appear more natural on camera. Practice effective story-telling techniques in taped and live reporting. As much as possible, the class will be run as a newsroom. News meetings will be held, stories assigned and approved, and students will research, write and anchor reports. Students will have the opportunity to contribute to University Report, which is produced by students in JOUR 4452. Each student will produce five reporter packages: One package must cover an event. One package must be hard news. One package must be a feature. One package will be a quick turnaround. There is one required textbook: It Takes More Than Good Looks by Wayne Freedman. Style: 10% Lecture, 30% Discussion, 60% Laboratory. Grading: 85% special projects, 15% quizzes.

JOUR 4452 Capstone: Electronic Newscast Producing A-F only, 3 credit(s); prereq [3004W or 3004V], 3101, 3121, 3451, [jour major or approved IDIM major or ICP major or BIS major]; Instructor: Stone,Ken Description: The emphasis in this course is on planning, writing and producing live TV newscasts. Students will produce six University Report newscasts throughout the semester. Much of the class will be spent writing news copy. Students will learn to hone their news and editorial judgment, create a show rundown, write and edit anchor copy, edit b-roll, create graphics, work with a director and studio crew and produce a journalistic sound, visually pleasing newscast with live and taped elements plus accompanying material for the web. Students will collaborate with students in JOUR 4451, using 4451 stories as is or reshaping those stories for the newscast. Students will also generate their own stories as needed. Some students will also anchor. Students will be able to create a resume tape and writing sample packet that can be used to help secure producing jobs in the industry. Learning Objectives: write clear, interested and accurate news copy; edit visually pleasing and editorially fair video and graphics; produce professional standard live television news shows an segments and material for the web; master knowledge of studio equipment capability; demonstrate management and leadership skills in dealing with technical crew members, anchors and reporters under tight deadline pressure. What Else You Should Know About This Course ? Plan to write. And rewrite. And work in teams. That's what producers do. Style: 10% Lecture, 30% Discussion, 60% Laboratory. Grading: 10% reports/papers, 50% special projects, 40% laboratory evaluation.

JOUR 4551 New Media Culture A-F only, 3 credit(s); prereq Non-jour major or jour major with course appr on prog plan or pre-jour with adviser approval; Instructor: Thiel-Stern,Shayla Description: Student may contact the instructor or department for information.

JOUR 4721 Mass Media and U.S. Society A-F only, 3 credit(s); prereq Non-jour major or jour major with course appr on prog plan or pre-jour with 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 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: 60% Lecture, 40% Discussion. Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation. Exam Format: short answer and short essay

JOUR 4731H Honors: Senior Seminar A-F only, 1 credit(s); prereq Jour major, honors; Instructor: Hansen,Kathleen Ann Description: Student may contact the instructor or department for information.

JOUR 4801 Global Communication 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 International Perspect Theme; Instructor: Chang,Tsan-Kuo Description: Student may contact the instructor or department for information.

JOUR 4990 Special Topics in Mass Communication: Professional: Special Topic: Capstone-Documentary Photojourn A-F only, 3 credit(s), max credits 6; prereq Jour major or approved IDIM major or ICP major or BIS major; Instructor: Schwartz,Dona Description: Student may contact the instructor or department for information.

JOUR 4992 Capstone: Field Based Practicum A-F only, 3 credit(s), max credits 6; prereq Jour major; Instructor: Ison,Christopher John Description: Student may contact the instructor or department for information.

JOUR 4992 Capstone: Field Based Practicum A-F only, 3 credit(s), max credits 6; prereq Jour major; Instructor: Golden,Gayle Celeste Description: A select group of professional journalism students can take JOUR 4992 as a field-based practicum class at the Saint Paul Pioneer Press in downtown St. Paul. This advanced-level professional skills class requires each student to work 14 hours per week on a reporting or production team at the newspaper. Students are assigned to local news, sports, features, entertainment, online, design/layout, photojournalism or business. Students also have a weekly lecture at the Pioneer Press - scheduled for Tuesdays, 12:30 to 2 - as well as other course assignments. Style: 20% Lecture, 80% Laboratory. Grading: 40% reports/papers, 10% special projects, 50% other evaluation. performance in the professional setting

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: Doyle,Kenneth Owen 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: Sullivan,Daniel Joseph
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: 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: Kokmen,Leyla Alev
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: Brazeal,Donald
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,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: 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: 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: Ison,Christopher 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: 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: 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: 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: Forde PhD, Kathy Roberts
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: Stamm, Michael 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: Mersey, Rachel Davis
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: Sanders, Amy Kristin
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: Thiel-Stern, Shayla
Description: Student may contact the instructor or department for information.

JOUR 5131 Capstone: In-Depth Reporting
A-F only, 3 credit(s); prereq [[3004W or 3004V], 3101, 3121, [jour major or approved IDIM major or ICP major or BIS major]] or grad student consent will not be granted if credit received for: 4131;
Instructor: McEnroe, Paul Joseph
Description: Student may contact the instructor or department for information.

JOUR 5155 Capstone: Advanced Reporting Methods
A-F only, 3 credit(s); prereq [[3004W or 3004V], 3101, 3121, [jour major or approved IDIM major or ICP major or BIS major]] or grad student consent will not be granted if credit received for: 4155;
Instructor: Schwitzer, Gary John
Description: The focus of the Advanced Reporting Methods course this term will be on health & medical journalism. Health news is one of the most popular beats in journalism. Health care is perhaps the leading domestic issue on voters' minds. This course is intended not just for those who might want to work a health care beat fulltime. It is designed to help general assignment journalists who someday will be assigned to complex health care/medical stories and will give them skills that will help them no matter the medium in which they work or the assignment they receive. In this course, students will: - explore the many forms the health beat can take: research news, consumer news, financial (health cost) news, political & governmental news (health policy), etc. - look closely at health care reform issues: 47-million uninsured Americans, health care quality and safety issues, why the U.S. is the only industrialized nation without comprehensive universal health insurance and one of only two countries that allows direct-to-consumer drug advertising, etc. - learn to scrutinize claims coming from any source regarding health care research, products or procedures; - analyze examples of excellence in health journalism in different media and formats; - build a file of important story topics and valuable health care sources; - work on multi-platform projects to cover health topics creatively, accurately, and with balance. We welcome enrollment not only from journalism students, but also from graduate students or students in the health sciences - anyone interested in learning how journalism can tackle these complex topics.
Style: 80% Lecture, 5% Film/Video, 25% Discussion, 5% Student Presentation, 5% Guest Speakers.

JOUR 5174 Capstone: Magazine Editing and Production
A-F only, 4 credit(s); prereq [3004W, 3101, [3155 or 3173W or 3321 or 4302], [jour major or approved IDIM major or ICP major or BIS major]] or grad student credit will not be granted if credit received for: 4174;
Instructor: Hoekstra, Joel C
Description: Student may contact the instructor or department for information.

JOUR 5195 Online Media Creation and Design
A-F only, 3 credit(s); prereq [3004W or 3004V, 3101, 3121, jour major] or instr consent; Credit will not be granted if credit has been received for: JOUR 8195;
Instructor: Brazee, Donald
Description: This three-credit course combines a study of key principals in effective web site creation with a hands-on experience in writing and editing of multi-media content. As part of the class, students will launch and maintain a daily news product using Weblog technology. While this is not strictly a computer software class, students will meet in SJMC's media lab and create on-line projects that integrate text, photographs, video and RSS feeds. The course will help students understand key concepts for creating effective Web sites, such as authoritative content, effective navigation and inviting page designs. Students will also explore audience measurement, Web site marketing, and the ethical/legal challenges of the Internet. The class will examine current trends in Web site technology and uses. This course is co-listed as JOUR 5195 and 8195 and is open to graduate students and non-journalism students with instructor approval.

JOUR 5251 Psychology of Advertising
A-F only, 3 credit(s); prereq jour maj or min or design comm or graphic pre-design or design comm or graph design or IDIM/ICP/BIS or instr consent ;
Instructor: Faber, Ronald J
Description: Student may contact the instructor or department for information.

JOUR 5251 Psychology of Advertising
A-F only, 3 credit(s); prereq jour maj or min or design comm or graphic pre-design or design comm or graph design or IDIM/ICP/BIS or instr consent ;
Instructor: Eighmey, John
Description: This course is concerned with psychological
JOUR 5991 Special Topics in Mass Communication: Context: Art & Science of Persuasion
A-F only, 3 credit(s), max credits 6; prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major;
Instructor: Doyle,Kenneth Owen
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: Doyle,Kenneth Owen
Description: Student may contact the instructor or department for information.

JOUR 5995 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.
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: Dicken-Garcia,Hazel F
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,Tsuan-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: Shaw,Sarah Brady
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: Kirtley,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: Brazeal,Donald
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: Schwitzer,Gary John
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: Southwell,Brian G
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: Stone,Ken
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: Kokmen,Leyla Alev
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: Huh,Jisu
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: Yzer,Marco
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: Stamm,Michael 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: Forde PhD,Kathy Roberts
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: Eighmey,John
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: Kokmen,Leyla Alev
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: Huh,Jisu
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: Yzer,Marco
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: Stamm,Michael 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: Mersey,Rachel Davis
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 IDM major or 
ICP major or BIS major], GPA of at least 3.00, college 
consent, dept consent, instr consent ; 
Instructor: Sanders,Amy Kristin 
Description: Student may contact the instructor or department 
for information.

JOUR 8002 Studies in Mass Communication II
A-F only, 3 credit(s); prereq 8001; 
Instructor: Dicken-Garcia,Hazel F 
Description: Student may contact the instructor or department 
for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 1-4 credit(s), max credits 4; 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, 1-4 credit(s), max credits 4; prereq 8191, 8195, 
health journalism MA prog; 
Instructor: Stohl,Karen K 
Description: Student may contact the instructor or department 
for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 1-4 credit(s), max credits 4; 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, 1-4 credit(s), max credits 4; prereq 8191, 8195, 
health journalism MA prog; 
Instructor: Ison,Christopher John 
Description: Student may contact the instructor or department 
for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 1-4 credit(s), max credits 4; prereq 8191, 8195, 
health journalism MA prog; 
Instructor: Greaves,Ian A 
Description: Student may contact the instructor or department 
for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 1-4 credit(s), max credits 4; prereq 8191, 8195, 
health journalism MA prog; 
Instructor: Lupeker MD,Russell V 
Description: Student may contact the instructor or department 
for information.

JOUR 8193 Directed Study: Health Journalism Capstone
A-F only, 1-4 credit(s), max credits 4; 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, 1-4 credit(s), max credits 4; 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, 1-4 credit(s), max credits 4; 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, 1-4 credit(s), max credits 4; prereq 8191, 8195, 
health journalism MA prog; 
Instructor: Yzer,Marco 
Description: Student may contact the instructor or department 
for information.

JOUR 8195 Seminar: Online Media Creation and Design
A-F only, 3 credit(s); prereq Health journalism MA grad 
student or instr consent ; Credit will not be granted if credit 
has been received for: JOUR 5195H; 
Instructor: Brazeal,Donald 
Description: This three-credit course combines a study of key 
principals in effective web site creation with a hands-on 
experience in writing and editing of multi-media content. As part 
of the class, students will launch and maintain a daily news 
product using Weblog technology. While this is not strictly a 
computer software class, students will meet in SJMC?s media 
lab and create on-line projects that integrate text, photographs, 
video and RSS feeds. The course will help students understand 
key concepts for creating effective Web sites, such as 
authoritative content, effective navigation and inviting page 
designs. Students will also explore audience measurement, Web 
site marketing, and the ethical/legal challenges of the Internet. 
The class will examine current trends in Web site technology and 
uses. This course is co-listed as JOUR 5195 and 8195 and is 
open to graduate students and non-journalism students with 
instructor approval.

JOUR 8202 Generation and Selection of Communication Strategies
A-F only, 3 credit(s); prereq Strat Comm MA grad major; 
Instructor: Wehenenberg,Steven James 
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: Kanihan,Stacey B 
Description: Student may contact the instructor or department 
for information.

JOUR 8502 Seminar: Multi-method research in Mass Communication
A-F only, 3 credit(s); prereq 8501, [EPsy 5260 or equiv or 
concurrent enrollment EPsy 5260]; 
Instructor: Doyle,Kenneth Owen 
Description: Student may contact the instructor or department 
for information.
JOUR 8601 Seminar: Methods in Mass Communication History Research
A-F only, 3 credit(s); prereq 8001, 8002;
Instructor: Dicken-Garcia,Hazel F
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/indecency. 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 8721 Seminar: Communication Agencies as Social Institutions
A-F only, 3 credit(s);
Instructor: Squires,Catherine R
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: 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 credits 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 credits 6, 6 repeats allowed;
prereq Grad mass comm major or minor, instr consent, dept consent;
Instructor: Ison,Christopher 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: Padelty,Mark Holmes
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: Pedelty,Mark Holmes
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: Tims,Albert R
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: Hansen,Kathleen Ann
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: Chang,Tsan-Kuo
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.

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: Wackman,Daniel Bruce
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: Dicken-Garcia,Hazel F
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.
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: Brazeal, Donald
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: Schuitzer, 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: 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: Kokmen, Leyla Alev
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: Yzer, Marco
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: 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: Stamm, Michael R
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: Mersey, Rachel Davis
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: Sanders, Amy Kristin
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: Thiel-Stern, Shayla
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;
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: Warpeha, Joseph M
Description: Professional/disciplinary dimensions of physical activity. Lecture, discussion, small group activities, lab tours.

KIN 1993 Directed Study in Kinesiology
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed;
prereq instr consent;
KIN 3001 Lifetime Fitness and Health
A-F only, 3 credit(s); meets CLE req of Social Science Core; 
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: Brulinaks, Brett Douglas
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: Hammond, Curtis W
Description: Introduction to human anatomy. Emphasizes musculoskeletal anatomy germane to athletic training, biomechanics, exercise physiology, motor learning/development.

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 cardiopulmonary, 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, 3 credit(s); prereq [PHYS 1101W or PHYS 1201W or PHYS 1301W or PHYS 1401V], [3027 or 3111 or ANAT 3001 or ANAT 3601 or ANAT 3611 or INMD 3001 or INMD 3601]; 
Instructor: Konczak, PhD Juergen
Description: This is an introductory course to biomechanics. The lecture portion of the course introduces basic concepts of physics and applies them to the analysis of human motion. The laboratory sessions are designed to provide hands-on experiences and to familiarize students with the array of instrumentations used for biomechanical analysis. Basic knowledge of trigonometry and algebra is needed. This course is required for majors in kinesiology. It is also suitable for physical therapists and students in human physiology and biomedical engineering.
Style: 60% Lecture, 10% Discussion, 30% Laboratory.

KIN 3112 Introduction to Biomechanics
A-F only, 3 credit(s); prereq [PHYS 1101W or PHYS 1201W or PHYS 1301W or PHYS 1401V], [3027 or 3111 or ANAT 3001 or ANAT 3601 or ANAT 3611 or INMD 3001 or INMD 3601]; 
Instructor: Konczak, PhD Juergen
Description: This information is accurate as of 9/15/2008 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 2008

KIN 3113 First Responder for Coaches and Athletic Trainers
A-F only, 3 credit(s); 
Instructor: Mc Neil, MA Mary Ann
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 3126W Psychology and Sociology of Sport
A-F only, 3 credit(s); prereq Kin major; meets CLE req of Writing Intensive; 
Instructor: Winges, Jim
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: Kenow, Laura J
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: Valenti, 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, Drewa, 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.

**KIN 3133 Motor Control, Learning, and Development**
- A-F only, 3 credit(s); prereq Kin major 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 or enhancement 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% exam, 25% evaluation, 20% other evaluation, additional exam
- Exam Format: multiple choice, with short essays

**KIN 3143 Organization and Management 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: Warpeha, Joseph M
- Description: Introduction to philosophy of evaluation/measurement in physical education and exercise science. Test selection, construction, evaluation, administration. Research methods, statistical analysis, interpretation of test scores.

**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/matchcontest for demonstration/teaching purposes;
- Instructor: Carroll, Christopher J
- 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/matchcontest 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/matchcontest for demonstration/teaching purposes;
- Instructor: Peterson, Gregory Jon
- Description: Coaching theory and skill development necessary to coach football.

**KIN 3176 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/matchcontest for demonstration/teaching purposes;
- Instructor: Carroll, Christopher J
- 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/matchcontest for demonstration/teaching purposes;
- Instructor: Sanny, John H
- Description: Student may contact the instructor or department for information.

**KIN 3327 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.
- Style: 25% Lecture, 15% Discussion. Teacher modeling with student participation and student micro-teaching
- Grading: 40% reports/papers, 15% special projects, 20% in-class presentation, 25% class participation
- Exam Format: No exams, performance assessment only

**KIN 3385 Human Physiology for Kinesiology Students**
- A-F only, 3 credit(s); prereq [(3027 or 3111 or equiv), Kin major] or instr consent;
- Instructor: Blitz, George Robert
- 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 3606 Supervised Practical Experience**
- S-N only, 1-10 credit(s), max credits 10, 10 repeats allowed;
- prereq instr consent;
- Instructor: Spletzer, Elizabeth A
- 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

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This information is accurate as of 9/15/2008 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.
with students and all school personnel. This field experience can be used to gain 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, 3) Completed evaluation form sent by the the Cooperating Physical Education Teacher, and 4) 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 3696 Supervised Practical Experience**

S-N only, 1-10 credit(s), max credits 10, 10 repeats allowed; prerequisite instructor consent;
Instructor: Hoffman, Brandi L
Description: On-the-job supervised practical experience in the fields of sport and exercise under a specialist in a particular area of study or emphasis.

**KIN 3993 Directed Study in Kinesiology**

A-F only, 1-10 credit(s), max credits 10, 5 repeats allowed; prerequisite instructor 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; prerequisite instructor consent;
Instructor: Spletzer, 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; prerequisite instructor 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; prerequisite instructor 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; prerequisite instructor 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; prerequisite instructor consent;
Instructor: Allison, J. D. 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; prerequisite instructor 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; prerequisite instructor 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; prerequisite instructor 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; prerequisite instructor 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; prerequisite instructor 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; prerequisite instructor 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; prerequisite instructor consent;
Instructor: Dengel, PhD, Donald Robert
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; prerequisite instructor consent;
Instructor: Stoffregen, Thomas
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; prerequisite instructor 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; prerequisite instructor 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; prerequisite instructor consent;
Instructor: Serfass, Robert C
Description: For Kinesiology majors who wish to study a topic or problem under tutorial guidance.
KIN 3997 Directed Study in Kinesiology
A-F only, 1-10 credit(s); max credits 10, 5 repeats allowed; prereq Kin Honors, instr consent;
Instructor: Petit, Moira Anne
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 proposal, development of senior thesis topic, advanced study, career opportunities in Kinesiology, special learning opportunities.

KIN 4012 Motor Development
A-F only, 3 credit(s);
Instructor: Leitschuh, Carol A.
Description: Developmental aspects of human movement behavior/learning. Life span change of motor skills.

KIN 4015 Exercise Physiology
A-F only, 4 credit(s); prereq [3385 or PHSL 3051, or equiv], kin major or instr consent;
Instructor: Blitz, George Robert

KIN 4697 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: Warpeha, Joseph M
Description: How to scientifically design resistance training programs and modify them for special populations (athletes, children, seniors, etc.). How exercise prescription design works in applied field.

KIN 4881 Understanding Kinesiology Research
A-F only, 3 credit(s); prereq Intro statistics recommended;
Instructor: Hughes, Julie M
Description: Prepares students to critically analyze research specific to Kinesiology.

KIN 5014 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, 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, 5% Field Trips, 5% Guest Speakers.
Grading: 17% final exam, 35% reports/papers, 25% special projects, 5% quizzes, 15% written homework, 5% attendance.
Note: attendance also includes in-class presentation and participation.
Exam Format: multiple choice, fill-in, matching, and essay

KIN 5115 Event Management in Sport
A-F only, 3 credit(s); prereq Grad student, instr consent;
Instructor: Ross, Stephen D
Description: This seminar style course is designed to introduce and discuss practices and principles of planning, funding, and managing sport events and how this impacts and influences its success. In addition to preparation for the event, legal and safety issues are very important considerations as well. Through discussion seminar discussion, this course will delve into the science of event management and all of its components.

KIN 5122 Applied Exercise Physiology
A-F only, 3 credit(s); prereq 4385 or equiv or instr consent;
Instructor: Kaufman, Chris L
Description: Mechanisms of cardiorespiratory and muscular responses to exercise, application of exercise physiology to assessment of work capacity, athletic conditioning, and requirements of human powered vehicles; low to moderate exercise as an intervention in lowering risk for common health problems.

KIN 5136 Psychology of Coaching
Instructor: Kaufman, Chris L
Description: Mechanisms of cardiorespiratory and muscular responses to exercise, application of exercise physiology to assessment of work capacity, athletic conditioning, and requirements of human powered vehicles; low to moderate exercise as an intervention in lowering risk for common health problems.
KIN 5142 Applied Sport Nutrition for Athletic Performance
3 credit(s); prerequisite: Grad student or instr consent
Instructor: Ingraham, Stacy Jean
Description: Latest research related to nutrition and human performance. Tools to differentiate between trends and scientific research related to optimizing human performance.

KIN 5196 Practicum: Development/Adapted Physical Education
S-N only, 1-4 credit(s), max credits 4, 4 repeats allowed; prerequisite: 5103 or concurrent enrollment 5104 or concurrent enrollment 5110 or instr consent; KIN undergraduate pre-teaching, with or 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 5235 Advanced Biomechanics II: Kinetics
A-F only, 3 credit(s); prerequisite [3112 or equiv], PMed 5135, undergrad college physics, intro calculus
Instructor: Konczak PhD, Juergen
Description: This course investigates how forces during human limb motion can be measured using single-joint motion and simple inverted pendulum models, linear and rotary forces, the notion of resistive and motive torques are introduced. Subsequently, the analysis is expanded to multi-joint motion. Parallels between limb motion and the behavior of a mass-spring systems are stressed, using experimental data and computer simulations. Overall, the contents will emphasize techniques for clinical movement assessment. The course includes lectures, laboratory exposure and seminar style discussion of selected readings. The course is an extension of Advanced Biomechanics I: Kinemetics (PMed 5135). However, PMed 5135 is not a prerequisite. This course is suited for students in Kinesiology, Biology, Physical Therapy and Bio-engineering.

KIN 5371 Sport and Society
A-F only, 3 credit(s); prerequisite [3126W, grad student] or instr consent
Instructor: LaVoi, Nicole Marie
Description: This course examines people and their behaviors within sport contexts from socio-cultural perspectives and how social institutions (e.g., family, church, government) and constructions (e.g., gender, class, race, sexual identity) intersect with sport to influence behavior. Course Objectives 1. To introduce students to the field of sport sociology by providing a broad overview of the major areas of the discipline. 2. To describe the complex and politicized relationship between sport, culture, and society. 3. To understand how identity is shaped, in part, by the dominant values and norms of a particular society, and how the generally conservative institution of sport attempts to indoctrinate people into the dominant system. 4. To understand how characteristics that are unique to sport can contribute to identity formation that sometimes runs counter to prevailing societal norms (e.g., athlete privileges, proscribed violence within hockey, culture of misogyny within football locker rooms, etc.). 5. To identify and understand movements towards equality and social justice in an increasingly multicultural and globalized sporting environment. 6. To describe how social problems (e.g., violence, sexism, racism and homophobia) in sport relate to larger society. 7. To describe how race, ethnicity, class, gender, sexual orientation, and disability are negotiated within sport. 8. To describe how technology has influenced sport and contemporary notions of the human athletic body. 9. To identify and critique future trends in sport. 10. To develop critical writing and thinking skills.

KIN 5375 Competitive Sport for Children and Youth
3 credit(s); prerequisite: Grad student or instr consent
Instructor: Wiese-Bjornstal PhD, Diane
Description: A number of cognitive, behavioral, and biological developmental factors having important implications for competitive sport participants from early childhood through high school age are examined. These factors include the historical, ethical, psychological, social, sports medicine and physiological dimensions of youth sport participation. Current issues affecting youth sport participants are also examined. Emphasis is placed on gaining knowledge about sport science data and research on young athletes and applying this knowledge to practical situations in youth sport. The target audience for this course includes current and prospective youth sport coaches and program administrators, physical education teachers, and parents of young athletes. This course is web enhanced.

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.

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 administering/managing 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: Bronas, Ulf Gunnar
Description: Introduction to electrocardiogram. Placement/interpretation, use in clinical exercise testing and exercise prescription. Hands-on experience in electrocardiogram for exercise testing.

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 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.

KIN 5641 Scientific Theory and Application of Training and Conditioning in Sport
A-F only, 3 credit(s); prereq 4385 or SPST 3641 or SPST 4641 or exercise physiology course or instr consent; Instructor: Warpeha, Joseph M
Description: Current scientific literature on physiological adaptation through training/conditioning for sport. Applying methods in research journals to improve physiological adaptation through training/conditioning with sport specificity.

KIN 5696 Practicum in Kinesiology
S-N only, 1-6 credit(s), max credits 6, 6 repeats allowed; prereq Grad student in KIN, instr consent; Instructor: Ingraham, 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; prereq Grad student in KIN, instr consent; Instructor: Allison J, 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; prereq 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; prereq Grad student in KIN, instr consent; Instructor: Kihl, 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: Collegiate Athletic Governance and Regulations
2 credit(s), max credits 8, 8 repeats allowed; prereq Kin upper div undergrad or grad student or instr consent; Instructor: Bruett, JT
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.

KIN 5720 Special Topics in Kinesiology: Motivational Interventions in Physical Activity
3 credit(s), max credits 8, 8 repeats allowed; prereq 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.

KIN 5722 Human Factors Psychology
A-F only, 3 credit(s); prereq Grad student or instr consent; Instructor: Stoffregen, Thomas
Description: Psychological principles that underlie human interactions with technological systems. Techniques/methodologies to assess faulty/incorrect system design. Emphasizes human-centered approaches. Rigorous evaluation of human-machine interaction.

KIN 5801 Legal Aspects of Sport and Recreation
A-F only, 4 credit(s); prereq Kin or rec major; Instructor: Loher, Vickie Lynn
Description: Legal issues related to recreation, park, and sport programs/facilities with public/private sectors.

KIN 5851 Research Methodology in Kinesiology, Recreation, and Sport
A-F only, 3 credit(s); prereq 3151 or equiv; Credit will not be granted if credit has been received for: REC 5981; Instructor: Kihl, Lisa A
Description: Defines/reviews various types of research in exercise/sport science, physical education, and recreation studies. Qualitative research, field studies, and methods of introspection as alternative research strategies to traditional scientific paradigm.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent; Instructor: Rodgerson, Richard W
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent; Instructor: Spletzer, Elizabeth A
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent; Instructor: Buysse, Jo Ann
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent; Instructor: Lewis, Beth Ann
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed; prereq CEHD student, grad, instr consent; Instructor: LaVoie, Nicole Marie
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
prereq CEHD student, grad, instr consent;
Instructor: Allison JD, Rayla
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
prereq CEHD student, grad, instr consent;
Instructor: Stoffregen, Robert C
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
prereq CEHD student, grad, instr consent;
Instructor: Dengel PhD, Donald Robert
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
prereq CEHD student, grad, instr consent;
Instructor: Ross, Stephen D
Description: Independent study under tutorial guidance.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Allison JD, Rayla
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;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: LaVoi, Nicole Marie
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;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Allison JD, Rayla
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;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Allison JD, Rayla
Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Stoffregen, Thomas
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
prereq CEHD student, grad, instr consent;
Instructor: Ingraham, Stacy Jean
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
prereq CEHD student, grad, instr consent;
Instructor: Konczak PhD, Juergen
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
prereq CEHD student, grad, instr consent;
Instructor: Hoffman, Brandy L
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
prereq CEHD student, grad, instr consent;
Instructor: Leitschuh, Carol A.
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 1 repeat allowed;
prereq CEHD student, grad, instr consent;
Instructor: Stoffregen, Thomas
Description: Independent study under tutorial guidance.

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KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Kane, Mary Jo
Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Wiese-Bjornstal PhD, Diane
Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Konczak PhD, Juergen
Description: Research problems and readings on a selected topic in Kinesiology.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Leitschuh, Carol A.
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;
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 credit(s), 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 credit(s), max credits 6, 1 repeat allowed;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Ross, Stephen D
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;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Kihl, Lisa A
Description: Students enrolled in the M.Ed. sport management emphasis area are required to complete a culminating project. This project should be completed near the end of your M.Ed. program as a culmination of your education and experience. You are asked to identify a problem or need in your area of professional practice in Kinesiology and come up with a project that addresses this problem or need to fulfill the requirements of KIN 5995. You should produce a final product that is useful to your professional practice. For additional information please click on this link: http://cehd.umn.edu/kin/students/docs/M.Ed%20Problems%20Proposed.doc
It is recommended that students complete KIN/REC 5981 Research methodology in Kinesiology, Recreation, and Sport prior to enrolling in KIN 5995.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 1 repeat allowed;
prereq [Grad or MEd student in Kin], instr consent;
Instructor: Pettit, 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;
prereq [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, 6 credit(s); prereq 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 seminar that meets on Monday of each week.

KIN 6598 Clinical Experience III: Physical Education
A-F only, 6 credit(s); prereq [6597, init 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;
prereq 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); prereq 5126 or instr approval;
Instructor: Wiese-Bjornstal PhD, Diane
Description: Literature, theoretical constructs, research methodology, design. Focuses on student-selected topics/problems.

KIN 8696 Internship: Applied Sport Psychology
S-N only, 3-6 credit(s), max credits 6; prereq 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 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: Lewis, Beth Ann
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: 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;
prereq 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;
prereq Kin PhD student or instr consent ;
Instructor: Leon,Arthur S
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: Kane, 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;
prereq 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;
prereq Kin PhD student or instr consent ;
Instructor: Konczak PhD, Juergen
Description: Research Problems in Kinesiology

KOR 1012 Beginning Korean
5 credit(s); prereq 1011; Credit will not be granted if credit has been received for: KOR 4002;
Instructor: Kim, Hye Yeong
Description: Student may contact the instructor or department for information.

KOR 1012 Beginning Korean
5 credit(s); prereq 1011; Credit will not be granted if credit has been received for: KOR 4002;
Instructor: Cheon, Yunseong
Description: Student may contact the instructor or department for information.

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 3022 Intermediate Korean
4 credit(s); prereq 3021;
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: 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: Kim, Hye Yeong
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: Cheon, Yunseong
Description: Student may contact the instructor or department for information.

KOR 4004 Intermediate Korean

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

This information is accurate as of 9/15/2008 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.
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 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.

Laboratory Medicine and Pathology
760 Mayo (MMC 609)

LAMP 4177 Pathology for Allied Health Students
3 credit(s); prereq One anatomy course, one physiology course, registered in allied health program) or instr 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

LA 1101W Introduction to Design Thinking
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: DHA 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 where purposeful 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

LA 1202 Making the Mississippi
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; Instructor: Nunnally,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. homework
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 &quot;see&quot; 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

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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); prereq 3001, Arch 3401, 3501; Instructor: Solkki, Tracey R Description: Student may contact the instructor or department for information.

LA 3501 Environmental Design and Its Biological and Physical Context A-F only, 3 credit(s); Meets CLE req of Environment Theme; Instructor: Pitt, David George Description: Student may contact the instructor or department for information.

LA 5203 Ecological Dimensions of Space Making A-F only, 6 credit(s); prereq LA major or instr consent; recommended for both BED and Grad students; Instructor: Koepeke, John Albert Description: A design studio experience that draws on ecological, cultural, and aesthetic influences to help students explore the development of design ideas that are responsive to ecological issues and human experience.

LA 5203 Ecological Dimensions of Space Making A-F only, 6 credit(s); prereq LA major or instr consent; recommended for both BED and Grad students; Instructor: Pitt, David George Description: A design studio experience that draws on ecological, cultural, and aesthetic influences to help students explore the development of design ideas that are responsive to ecological issues and human experience.

LA 5372 Computer Methods II S-N only, 1 credit(s); prereq Arch/LA 5371, LA grad or instr consent; Credit will not be granted if credit has been received for: ARCH 5372; Instructor: Colbert, Donald Alexander Description: Student may contact the instructor or department for information.

LA 8205 Urban Form Options: Landscape Architecture Studio 6-8 credit(s), max credits 8, 1 repeat allowed; prereq 2 yrs of studio, grad LA major or instr consent; Instructor: Hewitt, Clinton N Description: Student may contact the instructor or department for information.

LA 8302 Professional Practice A-F only, 3 credit(s); prereq 8205, grad LA major or instr consent; Instructor: Murphy Jr, Richard T 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: 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 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: Koepeke, 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: 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: Martin, Roger B 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: 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 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: Musacchio, Laura R
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: Krinke, Rebecca Jean
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: Galatowitsch, Susan 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: Olin, Peter Joel
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 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: Sykes, Robert D
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: Martin, Roger B
Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture Technology
1-6 credit(s), max credits 12, 12 repeats allowed; prereq Grad LA major or instr consent;
Instructor: Martin, Roger B
Description: Student may contact the instructor or department for information.
LA 8403 Directed Studies in Landscape Architecture  
Technology  
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 8403 Directed Studies in Landscape Architecture  
Technology  
1-6 credit(s), max credits 12, 12 repeats allowed; prereq  
Grad LA major or instr consent  
Instructor: Musacchio,Laura R  
Description: Student may contact the instructor or department for information.

LA 8403 Directed Studies in Landscape Architecture  
Technology  
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  
Technology  
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 8403 Directed Studies in Landscape Architecture  
Technology  
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  
Technology  
1-6 credit(s), max credits 12, 12 repeats allowed; prereq  
Grad LA major or instr consent  
Instructor: Musacchio,Laura R  
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: Koepke,John Albert  
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: Galatowitsch,Susan 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: Pitt,David George  
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: 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: Sykes,Robert D  
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 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: Musacchio,Laura R  
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: Martin,Roger B  
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: Martin,Roger B  
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: Martin,Roger B  
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: Galatowitsch, Susan M
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: Pit, 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: Neckar, Lance M
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: 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: Musacchio, Laura R
Description: Student may contact the instructor or department for information.

LA 8555 Advanced Landscape Planning and Design
A-F only, 6 credit(s); prereq 8205, grad land arch major or instr consent;
Instructor: Favore, Joseph Richard
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: Krinke, Rebecca Jean
Description: Student may contact the instructor or department for information.

LA 8741 Metropolitan Design Workshop and Optional Seminar
A-F only, 3-6 credit(s); max credits 6, 1 repeat allowed;
prereq Enrollment in CMD prog or instr consent;
Instructor: Barton, James Edward
Description: Student may contact the instructor or department for information.

LGTT 5101 Applications of Technology in Language Teaching
3 credit(s); Credit will not be granted if credit has been received for: LGTT 5110;
Instructor: Rowekamp, Jenise Katherine
Description: The course provides an opportunity for current and prospective teachers at all levels to gain systematic knowledge of the uses and resources of educational technology (audio, video, computer) for language teaching, of their role in enhancing language instruction, and of the theoretical and methodological justifications for their use. Class meetings include lecture, demonstration, discussion, hands-on exploration and student presentation. Students are encouraged to apply what they are learning to the language-teaching experience through observations, exploration, and the creation of activities and materials. Each graded activity includes a writing component in which the students describe, evaluate and reflect upon the learning activities and their application to teaching. The course will be web-enhanced with a WebVista course site.
Style: 10% Lecture, 10% Discussion, 40% Laboratory, 5% Small Group Activities, 5% Student Presentation, 20% Demonstration, 10% Web Based.
Grading: 10% final exam, 80% special projects, 4% in-class presentation, 6% other evaluation.
Exam Format: Essay and take home

LGTT 5110 Technology in the Second Language Classroom
2 credit(s); Credit will not be granted if credit has been received for: LGTT 5101;
Instructor: Rowekamp, Jenise Katherine
Description: This course is a hybrid version of LGTT 5101 that consists of two Saturday in-class sessions with the remainder of class time online via a WebVista course site. The course is designed for new and experienced second-language teachers and will provide an overview of available technological resources for language teaching, of their role in enhancing language instruction, and of the theoretical and methodological justifications for their use. Students are required to expand on course elements through learning modules and graded activities that are designed for students to apply what they are learning to the language-teaching experience through online discussion, feedback to peers, and the creation and posting of web-based teaching and learning materials. Each graded activity includes a writing component in which the students describe, evaluate and reflect upon the learning activities and their application to teaching. Students enrolling in this course should be comfortable with an independent learning style and at ease with web and online discussion tools.
Style: 10% Lecture, 10% Discussion, 10% Laboratory, 20% Demonstration, 50% Web Based. Online discussion
Grading: 10% final exam, 65% special projects, 5% in-class presentation, 20% other evaluation. Online Discussion

Latin
245 Nicholson Hall

LAT 3360 Advanced Undergraduate Latin: Drama
3 credit(s), max credits 12, 4 repeats allowed; prereq 3114 or equiv or instr consent;
Instructor: Smith, Stephen
Description: Long lost children . . . identical twins suddenly turning up . . . unexplained pregnancies . . . lovesick young men and lecherous old men . . . greedy moneylenders and prostitutes with hearts of gold . . . scheming servants and shocking plot twists. Melodrama? Soap opera? For the Romans, these were the stuff of comedy. Stock characters, predictable plots, and freely admitted plagiarism provided the comic playwrights of Rome with the means to take scenarios which would be threatening in real life and defuse them with many different types of humor. These comedies, oddly enough, form part of a link between Greek rhetoric and the raucous appeals to Shakespeare’s groundlings centuries later, and they are some of the oldest complete works of literature that we have from Rome. This semester we will be reading two comedies by Titus Maccius Plautus (ll. 190 BCE), the Mostellaria and the Casina—tales of a haunted house and a false bride. In addition to these texts (on average, 70-80 lines of Latin for each class meeting), we will be reading selections from other works (in English) relevant to Roman comedy, as well as looking at some modern presentations of Plautus’ work.
LAT 3960H Honors Course: Advanced Undergraduate Latin Reading
3 credit(s), max credits 12, 4 repeats allowed; prereq Regis in honors program or high ability as indicated by transcript;
Instructor: Smith, Stephen
Description: Long lost children . . . identical twins suddenly turning up . . . unexplained pregnancies . . . lovesick young men and lecherous old men . . . greedy moneylenders and prostitutes with hearts of gold . . . scheming servants and shocking plot twists. Melodrama? Soap opera? For the Romans, these were the stuff of comedy. Stock characters, predictable plots, and freely admitted plagiarism provided the comic playwrights of Rome with the means to take scenarios which would be threatening in real life and defuse them with many different types of humor. These comedies, oddly enough, form part of a link between Greek rhetoric and the raucous appeals to Shakespeare's groundlings centuries later, and they are some of the oldest complete works of literature that we have from Rome. This semester we will be reading two comedies by Titus Maccius Plautus (fl. 190 BCE), the Mostellaria and the Casina--tales of a haunted house and a false bride. In addition to these texts (on average, 70-80 lines of Latin for each class meeting), we will be reading selections from other works (in English) relevant to Roman comedy, as well as looking at some modern presentations of Plautus' work. (Students enrolled in 3960H will be required to submit an additional paper.)
Style: translation and discussion of texts

LAT 4951W Major Project
4 credit(s); prereq [Greek-Latin or Latin major], three 3xxx Latin courses, instr consent , dept consent credit will not be granted if credit already received for: Lat 3951W; Meets CLE req of Writing Intensive;
Instructor: Olson, S Douglas
Description: Student may contact the instructor or department for information.

LAT 5310 Latin Literature: History: Tacitus
3 credit(s), max credits 12, 4 repeats allowed; prereq Grad student or instr consent ;
Instructor: Gallia, Andrew B
Description: Tacitus, that most enigmatic observer of life under the emperors, will be our topic. We will read and discuss large sections of the Annals and Histories, as well as all of the 'minor works' - Agricola, Germania, and Dialogus.
Style: 75% Discussion, 25% Student Presentation.
Grading: 70% reports/papers, 10% quizzes, 20% in-class presentation.

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;
Instructor: Krevans, Nita
Description: Student may contact the instructor or department for information.

LAT 8120 Latin Text Course
3 credit(s), max credits 15, 5 repeats allowed; prereq 3111 or dept consent; not for students in dept of Classical and Nr East Studies;
Instructor: Marquis, Mary Christine
Description: Readings in Latin poetry for students who have had at least three semesters of Latin; introduction to Latin meter. Readings for spring 2008 will be selections from Vergil's Aeneid. (Course may be repeated for credit when topics vary.) Prerequisite: completion of Latin 3113 with a grade of C- or higher (or S) or instructor consent.

LAT 8120 Latin Text Course
3 credit(s), max credits 15, 5 repeats allowed; prereq 3111 or dept consent; not for students in dept of Classical and Nr East Studies;
Instructor: Krevans, Nita
Description: Readings in Latin poetry for students who have had at least three semesters of Latin; introduction to Latin meter. Readings for spring 2008 will be selections from Vergil's Aeneid. (Course may be repeated for credit when topics vary.) Prerequisite: completion of Latin 3113 with a grade of C- or higher (or S) or instructor consent.

LAT 8120 Latin Text Course
3 credit(s), max credits 15, 5 repeats allowed; prereq 3111 or dept consent; not for students in dept of Classical and Nr East Studies;
Instructor: Olson, S Douglas
Description: Readings in Latin poetry for students who have had at least three semesters of Latin; introduction to Latin meter. Readings for spring 2008 will be selections from Vergil's Aeneid. (Course may be repeated for credit when topics vary.) Prerequisite: completion of Latin 3113 with a grade of C- or higher (or S) or instructor consent.

LAT 8120 Latin Text Course
3 credit(s), max credits 15, 5 repeats allowed; prereq 3111 or dept consent; not for students in dept of Classical and Nr East Studies;
Instructor: Smith, Stephen
Description: Long lost children . . . identical twins suddenly turning up . . . unexplained pregnancies . . . lovesick young men and lecherous old men . . . greedy moneylenders and prostitutes with hearts of gold . . . scheming servants and shocking plot twists. Melodrama? Soap opera? For the Romans, these were the stuff of comedy. Stock characters, predictable plots, and freely admitted plagiarism provided the comic playwrights of Rome with the means to take scenarios which would be threatening in real life and defuse them with many different types of humor. These comedies, oddly enough, form part of a link between Greek rhetoric and the raucous appeals to Shakespeare's groundlings centuries later, and they are some of the oldest complete works of literature that we have from Rome. This semester we will be reading two comedies by Titus Maccius Plautus (fl. 190 BCE), the Mostellaria and the Casina--tales of a haunted house and a false bride. In addition to these texts (on average, 70-80 lines of Latin for each class meeting), we will be reading selections from other works (in English) relevant to Roman comedy, as well as looking at some modern presentations of Plautus' work.
Style: translation and discussion of texts

LAW 6054 Corporate Finance
A-F only, 2 credit(s); prereq Business Associations/Corporations I;
Instructor: Adams, Edward Scott
Description: Issues of corporate finance dominate American business and often personal decision-making. Few are not at least curious about how the stock market is performing and why merger and acquisition activity is booming. This course introduces students to fundamental principles of modern corporate finance. Specifically, the course provides a survey of issues and concepts such as: net present value, valuing bonds and stocks, capital market theory and the capital asset pricing model, the efficient capital markets hypothesis, capital structure, dividend policy, accessing the private and public debt and equity markets, options and mergers and acquisitions.

LAW 6102 Mergers and Acquisitions
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
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 6201 Land Use Planning
A-F only, 3 credit(s);
Instructor: Ofriel, Jr, Myron W.
Description: This course examines government regulation of property and the limits on its powers. The materials cover the practical aspects of legal practice in this area, such as rezonings, as well as the theoretical aspects. Topics include urban sprawl, takings, land preservation, and exclusionary zoning.

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 jurisdiction binding elsewhere? Vital course for prospective litigators in state and federal courts. A lawyer who has not taken this course would be unlikely even to be able spot the critical issues.

LAW 6206 Mediation Training
A-F only, 3 credit(s);
Instructor: Chalmers, Carolyn
Description: Student may contact the instructor or department for information.

LAW 6214 Insurance
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Schwarz, Daniel
Description: This class will cover fundamental principals of insurance law and regulation. We will survey the nature and function of insurance, insurance contract formation and meanings, insurance regulation, fire and property insurance, life, health and disability insurance, commercial and other liability insurance, bad faith and claim practices, auto insurance and reinsurance and secondary markets.

LAW 6602 International Law
A-F only, 3 credit(s);
Instructor: Gross, Oren
Description: The course is an introduction to public international law. It will examine the sources and history of the law of nations, and concepts of jurisdiction and conflicts of jurisdiction of nation states. It will also provide a brief survey of the law of international organizations (including the United Nations) international economic law, international environmental law, international protection of human rights, dispute resolution, and the control of the use of force (including peacekeeping, war crimes, and related topics).

LAW 6605 Health Law
A-F only, 3 credit(s);
Instructor: Wolf, Susan M
Description: This course is a comprehensive introduction to health law. We will investigate the organization of health care delivery in the United States; the nature of the physician-patient relationship; methods of quality control; responses to harm and error, including through medical malpractice litigation; problems of access to health care; and approaches to cost control. We will also analyze proposals for health care reform.

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 6644 Law and Economics
A-F only, 3 credit(s); prereq dept consent;
Instructor: Parisi, Francesco
Description: After an introduction to the methodology of law and economics, this course utilizes the standard tools of economic analysis for the study of law and legal institutions. After a review of some of the basic methods and concepts of economic analysis, the course will consider applications with special focus on: (i) sources of law and models of legal evolution; (ii) economics of property; (iii) economics of contracts; and (iv) economics of tort law. Requirements Completion of the "Analytical Methods for Law" course, or prior training in economic and/or quantitative methods is recommended. The course grade will be assigned on the basis of an in-class multiple choice exam (50% of the grade) and a take-home essay problem (50%).

LAW 6701 Seminar: Advanced Criminal Law
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Tonty, Michael H
Description: Student may contact the instructor or department for information.

LAW 6864 Seminar: Ethics and Government
A-F only, 2 credit(s);
Instructor: Painter, Richard W
Description: This seminar introduces students to federal government ethics law on a wide range of issues: financial conflicts of interest for government employees, financial reporting for senior employees, restrictions on dealing with former employers and other impartiality rules, gift rules, restrictions on negotiating for non government employment while in government service, prohibitions on representing back to the government after leaving government service, etc. We will also explore regulation of the lobbying industry and campaign finance, two topics closely integrated with government ethics. Can government ethics be significantly improved without substantial improvement in these areas as well? Students will take turns joining Professor Painter in leading weekly discussion of one or more specific topics. Students will also conduct independent research and write a paper (25-30 pages) on a relevant topic of their choice.

LAW 6892 Seminar: Comparative Criminal Procedure
A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Tonty, Michael H
Description: This information is accurate as of 9/15/2008 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.

LAW 6894 Seminar: Sentencing Policy
A-F only, 3 credit(s);
Instructor: Frase, Richard S
Description: This seminar includes a thorough examination of sentencing goals, structures (guidelines, mandatory penalties, indeterminate sentencing, etc.), alternatives, and consequences. A term paper is required.

LAW 6920 Seminar: Concept of the Person
A-F only, 2 credit(s);
Instructor: Blumenthal, Susanna
Description: The 'reasonable man' is a familiar figure in legal doctrine, making appearances in a broad range of civil and criminal cases, and generating lively academic debate. But this seminar considers a more fundamental issue?what are the mental preconditions for being considered a legal person in the first place? To answer this deceptively simple question, we will examine cases and commentaries penned by judges and jurists, looking across time and doctrinal fields. This inquiry will be necessarily interdisciplinary in nature, because members of the legal profession have themselves drawn on a range of nonlegal texts?religious, philosophical, literary, and scientific?in their various constructions of the legal subject. The focus will be primarily on American legal culture, from 1800 to the present, and the doctrinal areas that will receive the greatest attention are contracts, wills, torts, and criminal law.

Style: Students must circulate short reaction papers for 3 separate sessions. Each week 1 student will be responsible for writing a 4-6 page essay on the reading material and leading the week's discussion.

LAW 7004 Seminar: Structured Study Group Instructors
P-F only, 2 credit(s), max credits 4;
Instructor: Chomsky, Carol L
Description: Student may contact the instructor or department for information.

Liberal Studies
20 Classroom Office Building

LS 5100 Liberal Studies Seminar: Accessing the Innovating Mind
A-F only, 2 credit(s), max credits 24, 24 repeats allowed;
prereq dept consent;
Instructor: O'Donovan, Kathleen F
Description: Student may contact the instructor or department for information.

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: Popular Culture and Globalism
A-F only, 3 credit(s), max credits 24, 24 repeats allowed;
prereq dept consent;
Instructor: Gonzalez, PhD, Anita Marie
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
A-F only, 2 credit(s), max credits 24, 24 repeats allowed;
prereq dept consent;
Instructor: Wagner-Henry, Sherry Lynn
Description: Student may contact the instructor or department for information.

LS 5100 Liberal Studies Seminar: Where We Live:
Documenting Changing Communities
A-F only, 2 credit(s), max credits 24, 24 repeats allowed;
prereq dept consent;
Instructor: Husom, David Harold
Description: Student may contact the instructor or department for information.

LS 5950 Special Topics: Enlightenment
A-F only, 1 credit(s), max credits 12, 3 repeats allowed;
prereq dept consent;
Instructor: Dikel, William Robert
Description: Student may contact the instructor or department for information.

LS 5950 Special Topics: Emotional Responses to Innovation
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 6001 Introduction to Interdisciplinary Inquiry
A-F only, 3 credit(s); prereq MLS student, dept consent;
Instructor: Shupe, David Arlin
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;

This information is accurate as of 9/15/2008 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.
LING 1701 Language and Society
4 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Schmelzer,Sara
Description: The course reflects on the relationship between language and society. Sociolinguists have found that speech patterns are affected by aspects of social identity such as: age, gender, socioeconomic status, and ethnicity. They have also found that context and purpose affect how language is used. The course will also look at multilingual situations such as language contact, 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. This is a rough estimate of the distribution of points: the course will include reaction papers and participation in discussions.

LING 1701 Language and Society
4 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Khalilou,Ame
Description: Student may contact the instructor or department for information.

LING 4002 Linguistic Analysis
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent ;
Instructor: Marcotte, Jean-Philippe
Description: This is a postintroductory course in problem-solving techniques for morphology, syntax and phonology. The problems are drawn from a variety of languages and language families; the emphasis is on identifying and describing significant generalizations in the linguistic data rather than on theoretical issues.
Style: 70% Lecture. Small-group problem-solving work in class
Grading: 33% final exam. 67% homework assignments
Exam Format: problems comparable to the ones given on assignments

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: Wicklund,Mark D
Description: Student may contact the instructor or department for information.

LING 5106 Field Methods in Linguistics II
4 credit(s); prereq 5105;
Instructor: Stenson,Nancy J
Description: Continues study of linguistic structures through work with a native speaker of the chosen language. Follow-up work on previous semester's papers, work with recorded texts and comparison of findings with those available in grammatical descriptions. Students must have completed Linguistics 5105 in the same academic year to enroll.
Style: 25% Discussion, 50% Laboratory, 25% Student Presentation, field work, data gathering
Grading: 60% reports/papers, 10% special projects, 30% class participation.
Exam Format: no exams

LING 5201 Syntax I
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent ;
Instructor: Soh, 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 5205 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 5206 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 5302 Phonology I
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent ;
Instructor: Milligan, Marianne Irene
Description: Student may contact the instructor or department for information.

LING 5462 Field Research in Spoken Language
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent ;
Credit will not be granted if credit has been received for: COMM 5462;
Instructor: Szatrowski, Polly Ellen
Description: In this course we will investigate language in its "natural habitat," everyday talk, and investigate how participants use talk, gaze, gesture, body orientation and back channel utterances (h huh? eah, etc.) to make sense of one another conduct in real-life social interaction. We will investigate how co-participants use these resources to give attention, indicate listenership, and coordinate turn changes. We will also examine how speakers use prosody (changes in pitch and voice quality), laughter, gesture, body posture and timing to involve their listeners, complement/supplement their verbal messages, achieve co-tellership, negotiate opinions, and embody performances of emotion/ assessment. The course will include hands-on practice in transcription of verbal and nonverbal behavior (hand, head, eye, facial expression and body movement) using computer software to analyze intonation and pause, and frame-by-frame video analysis. We will also practice identifying and characterizing gestures (iconic, metaphoric, deictic, and beat) and analyze their role in introducing referents, information presentation, topic structuring, repair, word searches, etc. Our data will come from conversations in a variety of languages, including English, Japanese, Ilokano, and German.
Style: 40% Lecture, 30% Discussion.
Grading: 30% class participation, 40% other evaluation. Major paper, abstract, presentation; 30% Written homework and data collection
LING 5601 Historical Linguistics
3 credit(s); prereq 3001 or 3011H or 5001; Credit will not be granted if credit has been received for: LING 3601; Instructor: Harkness, John Underwood Description: Student may contact the instructor or department for information.

LING 5801 Introduction to Computational Linguistics
3 credit(s); prereq 5201 or programming experience or instr consent; Instructor: Reese, Brian Jon Description: This course is an introduction to the application of computational methods to natural language, with a focus on both theoretical-linguistic issues and practical applications. The levels of linguistic description covered include phonology, morphology, syntax, semantics and pragmatics. Possible topics include computational morphology and phonology, part-of-speech tagging, grammar engineering, computational semantics, coreference resolution and the analysis of discourse and dialogue. The course also provides an introduction to basic formal tools in symbolic approaches to computational linguistics, including regular expressions and finite-state methods, context-free grammars and parsing, and feature structures and unification.

LING 5900 Topics in Linguistics: Language Borderlands
3 credit(s), max credits 12, 3 repeats allowed; Instructor: Sheldon, Amy Description: It is estimated that half of the people in world speak more than one language. What is the quality and texture of a life like when lived in more than one language? How does language contribute to our sense of identity and sense of community? We will read essays and books by and about people who are polylingual or bidialectal. Some had to learn English because their families fled their homeland. Some are American born. One writer chose to immerse herself in another language after her father's death. Each writer struggles to fit into two or more worlds of language and hence culture. Each searches for self-unification and meaning in multiple worlds. Their languages or dialects have been a source of self-exploration, self-disruption, and self-reintegration. We will explore the gifts and heartaches of living within and across other languages or dialects. Whether monolingual or polylingual, we will learn about our linguistic histories, and the multilingual world we live in. We will also consider linguistic multiplicity in the U.S. and the world. We will become more aware of the language ideologies that shape our thinking as an individual and as a nation.

LING 5900 Topics in Linguistics: Verb Semantics and Sentence Structure
3 credit(s), max credits 12, 3 repeats allowed; Instructor: Marcotte, Jean-Philippe Description: Prerequisite: LING 5201 The meaning of a verb places constraints on the kinds of syntactic configurations in which the verb can be used. This course will provide an overview of the relationship between verb meaning and sentence structure, and the various theoretical approaches used by researchers to try to explain this relationship. Topics addressed will include thematic role and feature decomposition theories of verb meaning, constructions, lexicalization patterns in different languages, lexical aspect, and argument alternations. Readings will be drawn from the academic literature. Written assignments, final paper.

LING 5993 Directed Study
1-3 credit(s), max credits 10, 10 repeats allowed; prereq instr consent, dept consent, college consent; Instructor: Karvonen, Daniel Description: Student may contact the instructor or department for information.

LING 5993 Directed Study
1-3 credit(s), max credits 10, 10 repeats allowed; prereq instr consent, dept consent, college consent; Instructor: Szatrowski, Polly Ellen Description: Student may contact the instructor or department for information.

LING 5993 Directed Study
1-3 credit(s), max credits 10, 10 repeats allowed; prereq instr consent, dept consent, college consent; Instructor: Gundel, Jeanette K Description: Student may contact the instructor or department for information.

LING 5993 Directed Study
1-3 credit(s), max credits 10, 10 repeats allowed; prereq instr consent, dept consent, college consent; Instructor: Stenson, Nancy J Description: Student may contact the instructor or department for information.

LING 8005 Research Paper Workshop
S-N only, 3 credit(s), max credits 12, 4 repeats allowed; prereq [5105, 5202, 5205, 5302] or [instr consent, grad ling major]; Instructor: Gundel, Jeanette K Description: Student may contact the instructor or department for information.

LING 8200 Topics in Syntax and Semantics
3 credit(s), max credits 9, 3 repeats allowed; prereq 5202, 5205 or instr consent; Instructor: Marcotte, Jean-Philippe Description: Prerequisite: LING 5201 The meaning of a verb places constraints on the kinds of syntactic configurations in which the verb can be used. This course will provide an overview of the relationship between verb meaning and sentence structure, and the various theoretical approaches used by researchers to try to explain this relationship. Topics addressed will include thematic role and feature decomposition theories of verb meaning, constructions, lexicalization patterns in different languages, lexical aspect, and argument alternations. Readings will be drawn from the academic literature. Written assignments, final paper.

LING 8210 Seminar in Syntax
3 credit(s), max credits 9, 3 repeats allowed; prereq 5202, 5205 or instr consent; Instructor: Soh, Hooi Ling Description: Student may contact the instructor or department for information.

LING 8991 Independent Study
1-4 credit(s), max credits 15, 15 repeats allowed; prereq instr consent; Instructor: Kac, Michael B Description: Student may contact the instructor or department for information.

LING 8991 Independent Study
1-4 credit(s), max credits 15, 15 repeats allowed; prereq instr consent; Instructor: Gundel, Jeanette K Description: Student may contact the instructor or department for information.

LING 8991 Independent Study
1-4 credit(s), max credits 15, 15 repeats allowed; prereq instr consent; Instructor: Sheldon, Amy Description: Student may contact the instructor or department for information.

LING 8991 Independent Study
1-4 credit(s), max credits 15, 15 repeats allowed; prereq instr consent; Instructor: Stenson, Nancy J Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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.
LING 8991 Independent Study  
1-4 credit(s), max credits 15, 15 repeats allowed; prereq instr consent;  
Instructor: Soh, Hooi Ling  
Description: Student may contact the instructor or department for information.

Management 3-353 CarlSMgmt

MGMT 1350 Introduction to Business and Business Careers  
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: Goldman, Joseph Richard  

MGMT 3001 Fundamentals of Management  
A-F only, 3 credit(s);  
Instructor: Albert, Stuart  
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: Bartlett, David Louis  
Description: Student may contact the instructor or department for information.

MGMT 3001 Fundamentals of Management  
A-F only, 3 credit(s);  
Instructor: Seay, Steven A  
Description: Student may contact the instructor or department for information.

MGMT 3010 Introduction to Entrepreneurship  
A-F only, 4 credit(s);  
Instructor: Fine, Alan Raymond  
Description: Student may contact the instructor or department for information.

MGMT 3010 Introduction to Entrepreneurship  
A-F only, 4 credit(s);  
Instructor: Spruth, Steve  
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: 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: Seifeldin, Ashraf E  
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: Singh, Gurneeta Vasudeva  
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, CSOM Honors, at least 60 cr;  
Instructor: Seifeldin, Ashraf E  
Description: Student may contact the instructor or department for information.

MGMT 3070 Topics in Management: Entrepreneurship in Action  
A-F only, 4 credit(s), max credits 12, 3 repeats allowed; prereq At least 60 cr [completed or in progress];  
Instructor: Stavig, John David  
Description: Student may contact the instructor or department for information.

MGMT 3070 Topics in Management: Entrepreneurship in Action  
A-F only, 4 credit(s), max credits 12, 3 repeats allowed; prereq At least 60 cr [completed or in progress];  
Instructor: Abrams, Lori J  
Description: MGMT Negotiation is the art and science of securing agreements between two or more parties who are interdependent and who are seeking to maximize their own outcomes. The central issues of this course deal with understanding the behavior of individuals, groups and organizations in the context of competitive situations. This course is designed to complement the technical and diagnostic skills learned in other courses at the Carlson School. A basic premise of this course is that while an individual needs analytical skills to discover optimal solutions to problems, a broad array of negotiation skills are needed to get these accepted and implemented. This course will allow participants the opportunity to develop these skills experientially and to understand negotiation in useful analytical frameworks. As such, considerable emphasis will be placed on simulations role-playing and cases. The following is a list of course objectives: (1) To gain a broad understanding of the central concepts in negotiation, (2) To develop confidence in negotiation as an effective means for resolving conflicts in organizations, and (3) To improve you ability to analyze the behavior and motives of individuals, groups, and organization in settings that have both competitive and cooperative elements.

MGMT 3090 Topics in Leadership: Entrepreneurial Perspectives  
A-F only, 2 credit(s), max credits 4, 1 repeat allowed;  
Instructor: Wirth, Jeffrey John  
Description: Students work in teams with a founder of a prominent Minnesota business to develop a paper related to the entrepreneur’s business. During the last 7 weeks of the class, the entrepreneur and his/her student team will lead a group discussion about his/her business. Students will also submit an individual paper to apply their learnings to their own entrepreneurial interests. The goal is for students to gain insights from founders of leading Minnesota companies on the critical
issues faced in developing their companies; to identify, analyze and discuss recurring challenges facing entrepreneurial businesses; to apply prior entrepreneurship and functional coursework in real business environment; to inspire students to assess their entrepreneurial ambition and set long-term goals; and to understand the student’s personal managerial style and how it will impact their future entrepreneurial endeavors. The class is taught by entrepreneur Jeffrey Wirth and has included founders of prominent Minnesota businesses including Bahram Akredi, Tom Petters, Steven Schussler and Linda Hall-Whitman.

MGMT 3909 Topics in Leadership: Entrepreneurial Perspectives
A-F only, 2 credit(s); Credit will not be granted if credit has been received for: ESPM 3602;
Instructor: Adams,Georgean L
Description: Student may contact the instructor or department for information.

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 and Implementation
A-F only, 3 credit(s); prereq 3040, 90 cr, completion of business core courses; Meets CLE req of Writing Intensive;
Instructor: Fox,Isaac J
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: Sun,Kangyong
Description: Student may contact the instructor or department for information.

MGMT 4007 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: Yavuz,Rukiye Isil
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: Fine,Alan Raymond
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, 3010, CSOM upper div credit will not be granted if credit received for: 5050;
Instructor: Van de Ven,Andrew Henry
Description: This course focuses on HOW entrepreneurs create new businesses and how organizations innovate and change over time. Special emphasis is given to understanding the sequences of events that typically unfold in individuals, groups, organizations, and industries as innovations develop from concept to implementation. We rely heavily on the concepts and findings from the Minnesota Innovation Research Program, as well as other studies. We focus on how the innovation journey unfolds in the creation of a wide variety of new businesses, technologies, products, programs, and services. We study what paths along this journey are likely to lead to success and failure. We emphasize building diagnostic skills and developing useful principles that may increase the odds of maneuvering organizational innovation and change journeys. Course Text and Web page for additional materials and readings + Required text: Andrew H. Van de Ven, Douglas E. Polley, Raghu Garud, and Sankaran Venkataraman, The Innovation Journey, New York: Oxford Univ. Press, 1999. + Additional Readings will be posted and can be downloaded from MGMT 5050 web page at: http://www.csom.umn.edu/~avandeve/mgmt5050.home
Expectations and Grades Each student is expected to complete all required assignments and to participate actively in all classes. Students will work in teams on various exercises and lead some class discussions on selected topics. s.
Style: 30% Lecture, 50% Discussion. team work
Grading: 25% mid exam, 25% final exam, 50% reports/papers.
Exam Format: Reports and Papers(Students will prepare a mid-term paper that compares the innovation journey in cases of entrepreneurial ventures; The final take-home report, students diagnose and apply the principles covered in class to a case of their choosing.)

MGMT 4050 Management of Innovation and Change
A-F only, 2 credit(s); prereq 3001, 3010, CSOM upper div credit will not be granted if credit received for: 5050;
Instructor: Spruth,Steve
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, 3010, CSOM upper div credit will not be granted if credit received for: 5177;
Instructor: Yavuz,Rukiye Isil
Description: Student may contact the instructor or department for information.

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

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: Clasen,Dodd
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: Shah, Pri Pradhan  
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: Murtha, Thomas P  
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, Svjetlana  
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: DeVaughn, Michael Lawrence  
Description: Student may contact the instructor or department for information.

MGMT 6034 Strategic Leadership  
A-F only, 2 credit(s); prereq 6033;  
Instructor: DeVaughn, Michael Lawrence  
Description: Student may contact the instructor or department for information.

MGMT 6035 Complex and Cross-Cultural Negotiations  
A-F only, 2 credit(s);  
Instructor: Murtha, Thomas P  
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: Pavone, Carla  
Description: Welcome to the Innovation Journey?the challenging route by which organizations transform their products/services and themselves. This course will focus on innovation as a process with distinct stages and elements. We will also look at change management strategies to help implement innovation. By the end of this course, class participants should be able to: - Map the stages of the innovation process - Determine how to overcome organizational learning disabilities?while innovating - Identify the key leadership roles that come into play during innovation - Assess the infrastructure that may facilitate or inhibit an innovation - Leverage external relationships to bring an innovation to fruition - Evaluate an organization?s readiness for change - Develop a strategy to implement innovation based on change management principles - Analyze organizational problems and propose solutions in a way that is rigorous and convincing to decision makers.

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: Hydrie, Yelena  
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: Vaaler, Paul Martin  
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 8405 Topics in Strategy II  
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, 0-2 credit(s), max credits 2, 1 repeat allowed;  
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 economic 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 20 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.

Style: 40% Lecture, 30% Discussion, 30% Small Group Activities.

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 Aldrich
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: Burk, Dan
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: Amin, Massoud
Description: Student may contact the instructor or department for information.

Managerial Communications
4-300 Carlson School of Management

MCOM 5400 Managerial Communications for the HR Professional
A-F only, 2 credit(s); prereq HRIR student;
Instructor: Bork, Joseph T.
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: Bork, Joseph T.
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: Syverson MA, JoAnn
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 Introduction to Manufacturing in a Global Economy
A-F only, 3 credit(s);
Instructor: McConaghy, Ed
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
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, 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 Completion of [physics, chemistry, [college algebra or precalculus]] with a grade of at least C-, 45 sem crs completed;
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: Halter, Robert S
Description: Introduction to four basic types of characterization methods: electron beam microscopy, optical microscopy and FTIR, proximal probe techniques, and x-ray/yon beam scattering. A review of the underlying principles will be presented for each technique and the information that can be reliably obtained from each will be discussed.

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: Intro 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 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: Overview of the challenges and available tools for measuring the properties of nanoaerosols. Topics include optical particle counters, condensation particle counters, differential mobility analysis, electrospays, atomizers, and single particle mass spectrometers

MT 4001 Manufacturing Cost Accounting, Analysis, and Control
A-F only, 3 credit(s); prereq Financial accounting, 45 cr;
Instructor: Vickman, Thomas M
Description: Expands on student's lower division work in financial accounting. Emphasis is on using accounting data to make day-to-day management decisions such as: determining cost-volume-profit relationships, measuring various costs, evaluating capital budgets and the acceptability of investment projects, constructing profit plans, evaluating budget variances, and analyzing activity costing and standard costs.

MT 4011 Design of Manufacturing Systems and Simulation
A-F only, 3 credit(s);
Instructor: King, William Tyler
Description: Design and analysis of different types of manufacturing systems such as flow lines, assembly systems, cellular manufacturing, flexible manufacturing, and automated systems; control issues in manufacturing systems such as facility layout, scheduling, batch sizing, group technology, and bottleneck management. A variety of modeling and analysis tools are used, including computer simulation and operations. Lab as part of course. Minimum requirements for working with the ProModel simulation software used in this course include a PC with Pentium processor running Windows 95 or better, with at least 16 MB RAM. For recommended system requirements, please see the ProModel Web site

MT 4012 Manufacturing Processes
A-F only, 3 credit(s);
Instructor: Edmonson, Dave
Description: A description and modeling of many commonly used manufacturing processes. Covers process descriptions, process capabilities and performance, process models relating process parameters to part and process characteristics and process control. Fundamental aspects of a large number of manufacturing processes offered by studying selected classes of different kinds of processes.

MT 4501 Manufacturing Product/System Design I
A-F only, 3 credit(s);
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 CarlsonSmgmt

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: Upton, Kevin John
Description: INTERNATIONAL VERSION: This new offering is an exciting way for undergraduate students to fulfill Carlson School's Marketing core (MKTG 3001) with study in both the U.S. and France, taught entirely in English. It is especially useful for students seeking an introductory study experience in the European Union. The course is offered in collaboration with the Bordeaux Business School in Bordeaux, France, and will be taught in three locations – at the Carlson School, in Paris, and in Bordeaux. How to Apply: Complete an application by December 1. Applications available at: www.carlsonschool.umn.edu/undergraduatetestudyabroad

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prereq ECON 1101;
Instructor: Park, Ji Kyung
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:** Kaikati, Andrew Mark  
**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:** Bendle, Neil Thomas  
**Description:** e-mail: bendle003@umn.edu (email is the most effective way to contact me) Phone: 612-626-9723 Office: 4-161 CSOM Office Hours: Monday and Wednesday: 10:30–12:00 (TBC and by appointment) Course Description Introduction to terms, concepts, and skills for analyzing marketing problems. Factors outside the organization affecting its product, pricing, promotion, and distribution decisions. Examples from actual organizations (the "real world") are used. Course Objectives Upon completion of this course all participants should be able to: 1. Explain the functional role of marketing within any organization. 2. Explain the marketing concept. 3. Discuss relationship between marketing strategy and organizational strategy. 4. Analyze the environmental forces affecting marketing. 5. Explain consumer behavior. 6. Explain business buyer behavior. 7. Use marketing research. 8. Explain segmentation and targeting. 9. Discuss the product development process. 10. Understand managing products and services. 11. Understand brands and brand management. 12. Explain how pricing decisions are made. 13. Explain marketing channels. 14. Understand the strategic use of marketing communications tools. 15. Understand and defend the role of sales in an organization. 16. Expand these concepts globally. 17. Make ethical decisions in a marketing context. 18. Recognize marketing job opportunities and career paths in marketing. For Non-Marketing Majors: Understand the connection between and among marketing and the other functions of any organization. For Marketing Majors: Master the language and theoretical core of marketing in preparation for advanced courses and careers. Required Text/Materials The key source of information for the course is the textbook: Kerin, Hartley, Rudelius, (2007) Marketing: The Core (2nd Edition). New York: McGraw Hill. The accompanying website is www.mhhe.com/kerin  
**Style:** 65% Lecture, 5% Film, 25% Discussion, 5% Guest Speakers.  
**Grading:** 17% special projects, 66% quizzes, 17% class participation.

**MKTG 3001 Principles of Marketing**  
A-F only, 3 credit(s); prereq ECON 1101;  
**Instructor:** Kishore, Sunil  
**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 M  
**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:** Mukherji, Prokriti  
**Description:** Student may contact the instructor or department for information.

**MKTG 4020 Advanced Logistics and Supply Chain**  
**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:** 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:** Smith, Sandra S  
**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:** Belich, Thomas James  
**Description:** Student may contact the instructor or department for information.

**MKTG 4070 International Marketing**  
A-F only, 2 credit(s); prereq 3001, 3010;  
**Instructor:** Seltzer, Jon  
**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 step into the shoes 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 designed 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, 5% quizzes, 25% participation.  
**Exam Format:** short answer

**MKTG 6051 Marketing Research**  
A-F only, 4 credit(s); prereq MBA 6210, MBA student;  
**Instructor:** Eberl, Jane E J  
**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: Werner, Seth E
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: Maki, Diane
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 IDSc 6442 or IDSc 6423], 2nd yr MBA student; Credit will not be granted if credit has been received for: OMS 6065;
Instructor: Ohannesian, Judy T
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 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;
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

MKTG 6088 Strategic Marketing
A-F only, 2 credit(s); prereq MBA 6210, MBA student;
Instructor: Hopkins, David K
Description: Student may contact the instructor or department for information.

MKTG 6088 Strategic Marketing
A-F only, 2 credit(s); prereq MBA 6210, MBA student;
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

MKTG 6090 Marketing Topics
A-F only, 1-4 credit(s), max credits 4; prereq MBA 6210;
Instructor: Murray, John A
Description: Student may contact the instructor or department for information.

MKTG 6090 Marketing Topics
A-F only, 1-4 credit(s), max credits 4; prereq MBA 6210;
Instructor: Houston, Michael J
Description: Student may contact the instructor or department for information.

MKTG 6090 Marketing Topics
A-F only, 3 credit(s), max credits 4; prereq MBA 6210;
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

MKTG 6090 Marketing Topics
A-F only, 3 credit(s), max credits 4; prereq MBA 6210;
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

MKTG 8811 Seminar: Consumer Behavior
4 credit(s); prereq MBA 6210 or equiv, business admin PhD student or instr consent;
Instructor: Loken, Barbara
Description: Student may contact the instructor or department for information.

MKTG 8851 Seminar: Marketing Management and Strategy
4 credit(s); prereq MBA 6210 or equiv, business admin PhD student or instr consent;
Instructor: Chandy, Rajesh K
Description: Student may contact the instructor or department for information.

Master of Business Administration
2-210 CarlSMgmt

MBA 6030 Financial Accounting
A-F only, 3 credit(s); prereq Evening MBA Student;
Instructor: Mogg, Melanie Joe
Description: Student may contact the instructor or department for information.

MBA 6030 Financial Accounting
A-F only, 3 credit(s); prereq 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); prereq MBA student;
Instructor: Caliendo, Charles Michael
Description: Student may contact the instructor or department for information.

MBA 6035 Managerial Accounting
A-F only, 3 credit(s); prereq MBA student;
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); prereq MBA student;
Instructor: Li, William
Description: Student may contact the instructor or department for information.

MBA 6120 Data Analysis and Statistics for Managers
A-F only, 3 credit(s); prereq 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); prereq 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); prereq MBA student;
Instructor: Buslovich, Lev
Description: Student may contact the instructor or department for information.

MBA 6220 Operations Management
A-F only, 3 credit(s); prereq MBA student;
Instructor: Martens, Scott L
Description: Student may contact the instructor or department for information.

MBA 6220 Operations Management
A-F only, 3 credit(s); prereq MBA student;
Instructor: Brunner, Douglas
Description: Student may contact the instructor or department for information.

MBA 6230 Financial Management
A-F only, 3 credit(s); prereq MBA student;
Instructor: Reik, John W
Description: MBA 6230 is an intensive, analytical introduction to financial management. It is a survey course that is designed to build upon accounting and other business topics. At the end of the course, participants should have a thorough understanding of: financial statement composition and analysis, basic tax implications of investment and financing decisions, cash flow analysis, risk and return relationships, discounted cash flow analysis, valuation techniques, cost of capital calculation and analysis, capital budgeting techniques and issues, capital structure decisions and issues, long-term financing decisions, short-term financial management issues, and financial analysis and planning issues. MBA 6230 concentrates on both the understanding of relevant financial theory and the application of relevant financial theory to practical business situations. As one portion of a complete MBA curriculum, it supplements participants' study in other business areas such as management, quantitative analysis, and accounting in order to provide well-grounded and sensible solutions to real-life business problems. A serious and conscious effort has been made to integrate MBA 6230 into the current MBA curriculum. Your instructor encourages you to ask questions if you have them! Your class instructor has left sufficient time in class to address them, and if you don't ask them, then you might never get an answer to them. Moreover, if the only sound you hear during the entire semester is the sound of your instructor's voice, you will probably be really bored. You will work HARD in this course but you will learn a LOT. Topics covered include: Introduction to Corporate Finance, Corporate Taxation, Time Value of Money, Valuation Risk and Return, Financial Analysis, Financial Forecasting, Current Assets, Capital Budgeting, Long-Term Financing Cost of Capital, Capital Structure.

Style: 90% Lecture, 10% Discussion. We cover a LOT of information in this class, but you always have enough time to ask questions.

Grading: 45% mid exam, 55% final exam. Your grade will be determined by a midquarter and cumulative final exam. The homeworks are “extra credit.”

Exam Format: Almost 100% word problems in which you need to determine a mathematical solution. Midquarters are usually 2.25 hours and finals are usually 2.5 hours. Number of questions on each ranges from 14 to 18.

MBA 6230 Financial Management
A-F only, 3 credit(s); prereq MBA student;
Instructor: Sass, Renee J
Description: Student may contact the instructor or department for information.

MBA 6300 Strategic Management
A-F only, 3 credit(s); prereq MBA student;
Instructor: Forbes, Daniel P
Description: Student may contact the instructor or department for information.

MBA 6300 Strategic Management
A-F only, 3 credit(s); prereq 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); prereq 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); prereq MBA student;
Instructor: Michaelson, Christopher Miles
Description: Student may contact the instructor or department for information.

MBA 6315 The Ethical Environment of Business
A-F only, 2 credit(s); prereq 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; prereq [Apply to or accepted] in spring-A of 1st year to begin in spring-B; recommended are [emph in finance mgmt, 6031, Acct 6100, Acct 6160];
Instructor: Caliendo, Charles Michael
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; prereq [Apply to or accepted] in spring-A of 1st year to begin in spring-B; recommended are [emph in finance mgmt, 6031, Acct 6100, Acct 6160];
Instructor: Snyder, Steven J
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; prereq [Apply to or accepted] in spring-A of 1st year to begin in spring-B; recommended are [emph in finance mgmt, 6031, Acct 6100, Acct 6160];
Instructor: Caliendo, Charles Michael
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; prereq Full-time MBA student, approved application, interview;
Instructor: Nord, Tobin Lawrence
Description: Student may contact the instructor or department for information.

MBA 6504 Carlson Consulting Enterprise
OPT No Aud, 2 credit(s), max credits 6, 3 repeats allowed; prereq Full-time MBA student, approved application, interview;
Instructor: Miller, Philip Jordan
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; prereq Full-time MBA student, approved application, interview;
Instructor: Rutledge, Connie R
Description: Student may contact the instructor or department for information.

MBA 6990 MBA Topics
A-F only, 2 credit(s), max credits 8, 4 repeats allowed; prereq Full-time MBA student, instr consent;
Instructor: Michaelson, Christopher Miles
Description: Student may contact the instructor or department for information.

Master of Business Taxation
3-108 Carlson School of Management
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor(s)</th>
<th>Description</th>
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<tr>
<td>MBT 5150</td>
<td>Current Financial Accounting Issues</td>
<td>A-F, 2 credits</td>
<td>MBT 2050</td>
<td>Seller, Mark A</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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<tr>
<td>MBT 5230</td>
<td>Corporate Taxation I</td>
<td>A-F, 2 credits</td>
<td>MBT 5135</td>
<td>Seller, Mark A</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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<tr>
<td>MBT 5333</td>
<td>Tax Aspects of Consolidated Returns</td>
<td>A-F, 2 credits</td>
<td>MBT 5230</td>
<td>McCormick, James Phillip</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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<tr>
<td>MBT 5350</td>
<td>Taxation of Estates and Gifts</td>
<td>A-F, 2 credits</td>
<td>Acct 5135</td>
<td>2050, MBT student; Skonnord, Eric Jenal</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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<tr>
<td>MBT 5353</td>
<td>Income Taxation of Fiduciaries</td>
<td>A-F, 2 credits</td>
<td>Acct 5135</td>
<td>2050, MBT student; Bedosky, John Richard</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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<tr>
<td>MBT 5356</td>
<td>Taxation of Compensation Arrangements</td>
<td>A-F, 2 credits</td>
<td>Acct 5135</td>
<td>2050, MBT student; Clark, Keith H</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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<tr>
<td>MBT 5360</td>
<td>State and Local Taxation</td>
<td>A-F, 2 credits</td>
<td>Acct 5135</td>
<td>2050, MBT student; Busacker, Dale Herman</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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<tr>
<td>MBT 5363</td>
<td>Taxation of Executive Compensation</td>
<td>A-F, 2 credits</td>
<td>2050, MBT student; Clark, Keith H</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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<tr>
<td>MBT 5373</td>
<td>Taxation of Inventories</td>
<td>A-F, 2 credits</td>
<td>2050, MBT student; Sehman, Thomas Robert</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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<tr>
<td>MBT 5500</td>
<td>Business, Government, and Economic Tax Policy</td>
<td>A-F, 4 credits</td>
<td>Acct 5135</td>
<td>2050, MBT student; Wilensky, Alan Jay</td>
<td>2050, MBT student; Student may contact the instructor or department for information.</td>
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Materials Science

**151 Amundson Hall**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor(s)</th>
<th>Description</th>
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<tr>
<td>MATS 2001</td>
<td>Introduction to the Science of Engineering</td>
<td>A-F, 3 credits</td>
<td>CHEM 1021, MATH 1272, PHYS 1301W</td>
<td>Norris, David J</td>
<td>2001, MBT student; Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATS 2002</td>
<td>Introduction to the Science of Engineering</td>
<td>A-F, 3 credits</td>
<td>CHEM 1021, MATH 1272, PHYS 1301W</td>
<td>Norris, David J</td>
<td>2001, MBT student; Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATS 2002</td>
<td>Introduction to the Science of Engineering</td>
<td>A-F, 3 credits</td>
<td>CHEM 1021, MATH 1272, PHYS 1301W</td>
<td>Norris, David J</td>
<td>2001, MBT student; Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

This information is accurate as of 9/15/2008 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 1031 College Algebra and Probability
3 credit(s); prerequisite 3 years high school math or grade of at least C- in GC 0731; 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); prerequisite 3 years high school math or grade of at least C- in GC 0731; Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;
Instructor: Stottlemeyer, Ph.D., Janet
Description: Student may contact the instructor or department for information.

MATH 1031 College Algebra and Probability
3 credit(s); prerequisite 3 years high school math or grade of at least C- in GC 0731; Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;
Instructor: Stottlemeyer, Ph.D., Janet
Description: Student may contact the instructor or department for information.

MATH 1031 College Algebra and Probability
3 credit(s); prerequisite 3 years high school math or grade of at least C- in GC 0731; Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;
Instructor: Franklin, Judith H
Description: Student may contact the instructor or department for information.

MATH 1031 College Algebra and Probability
3 credit(s); prerequisite 3 years high school math or grade of at least C- in GC 0731; Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;
Instructor: Canavan, Amy Kathleen
Description: Student may contact the instructor or department for information.

MATH 1031 College Algebra and Probability
3 credit(s); prerequisite 3 years high school math or grade of at least C- in GC 0731; Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;
Instructor: Robertson, Douglas Frederick
Description: Student may contact the instructor or department for information.

MATH 1051 Precalculus I
3 credit(s); prerequisite 3 years high school math or placement exam or grade of at least C- in GC 0731; Credit will not be granted if credit has been received for: 1031, 1151; Instructor: Robertson, Douglas Frederick
Description: Student may contact the instructor or department for information.
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 0731 or 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; 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 \( f(x) = \frac{x^3 - 1}{(x^2 - 9)} \)"

MATH 1051 Precalculus I
3 credit(s); prereq 3 yrs high school math or placement exam or grade of at least C- in GC 0731; Credit will not be granted if credit has been received for: 1031, 1151; Instructor: Skle,Duane Anthony
Description: Student may contact the instructor or department for information.

MATH 1051 Precalculus I
3 credit(s); prereq 3 yrs high school math or placement exam or grade of at least C- in GC 0731; Credit will not be granted if credit has been received for: 1031, 1151; Instructor: Langlie,Richard A
Description: Student may contact the instructor or department for information.

MATH 1142 Short Calculus
4 credit(s); prereq 3 1/2 yrs high school math 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: Rusin,Walter
Description: Student may contact the instructor or department for information.

MATH 1142 Short Calculus
4 credit(s); prereq 3 1/2 yrs high school math 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: Hoang,Luan Thach
Description: Student may contact the instructor or department for information.

MATH 1151 Precalculus II
3 credit(s); prereq 3 1/2 yrs high school math or placement exam or grade of at least C- in [1031 or 1051]; Credit will not be granted if credit has been received for: 1155 credit will not be granted if credit received for: MATH 1155; Meets CLE req of Mathematical Thinking Core; Instructor: Lyubeznik,Gennady
Description: Student may contact the instructor or department for information.

MATH 1151 Precalculus II
3 credit(s); prereq 3 1/2 yrs high school math or placement exam or grade of at least C- in [1031 or 1051]; Credit will not be granted if credit has been received for: 1155 credit will not be granted if credit received for: MATH 1155; Meets CLE req of Mathematical Thinking Core; Instructor: Konopliv,Nickolas
Description: Student may contact the instructor or department for information.

MATH 1151 Precalculus II
3 credit(s); prereq 3 1/2 yrs high school math or placement exam or grade of at least C- in [1031 or 1051]; Credit will not be granted if credit has been received for: 1155 credit will not be granted if credit received for: MATH 1155; Meets CLE req of Mathematical Thinking Core; Instructor: Hoang,Luan Thach
Description: Student may contact the instructor or department for information.

MATH 1155 Intensive Precalculus
5 credit(s); prereq 3 yrs high school math or placement exam or grade of at least C- in GC 0731; Credit will not be granted if credit has been received for: 1031, 1051, 1151; Meets CLE req of Mathematical Thinking Core; Instructor: Hoang,Luan Thach
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq 4 yrs high school math including trig or 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: Brokken,David Allan
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq 4 yrs high school math including trig or 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: Radcliffe,David G
Description: Student may contact the instructor or department for information.
MATH 1271 Calculus I
4 credit(s); prereq 4 yrs high school math including trig or 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: Littman,Walter
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq 4 yrs high school math including trig or 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: Schwartzbauer,Thomas
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq 4 yrs high school math including trig or 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: Marden,Albert
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq 4 yrs high school math including trig or 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: Smith,Bernard P
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq 4 yrs high school math including trig or 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: Littman,Walter
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: Wilson,Scott O
Description: Student may contact the instructor or department for information.

MATH 1282 Calculus With Biological Emphasis II
4 credit(s); prereq [1271 or 1281 or 1371] with grade of at least C-; Credit will not be granted if credit has been received for: MATH 1272;
Instructor: Kahn,Donald William
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: Oman,Peter J
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: Guzman,Johnny
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 1572H Honors Calculus II
4 credit(s), max credits 5, 1 repeat allowed; prereq Grade of at least C- in 1571, IT Honors Office approval; parts of this sequence may be taken for cr by students who have taken non-honors calc classes; Credit will not be granted if credit has been received for: MATH 1272;
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: 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: Prikey,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: Prikey,Karel L
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: Meyers,Norman G
Description: Student may contact the instructor or department for information.
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Instructor</th>
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<td>Multivariable Calculus</td>
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<td>Credit(s); prerequisite 1272 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2374;</td>
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<td>Guilliver II, Robert D</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MATH 2263</td>
<td>Multivariable Calculus</td>
<td>4</td>
<td>Credit(s); prerequisite 1272 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2374;</td>
<td></td>
<td>Scholz, Kurt</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 2283</td>
<td>Sequences, Series, and Foundations</td>
<td>3</td>
<td>Credit(s); prerequisite concurrent enrollment in [2243 or 2263 or 2373 or 2374]; Credit will not be granted if credit has been received for: MATH 3283W;</td>
<td></td>
<td>Hejhal, Dennis A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 2373</td>
<td>IT Linear Algebra and Differential Equations</td>
<td>4</td>
<td>Credit(s); prerequisite [1272 or 1282 or 1372 or 1572]; IT; Credit will not be granted if credit has been received for: MATH 2243;</td>
<td></td>
<td>Andor, Greg William</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 2373</td>
<td>IT Linear Algebra and Differential Equations</td>
<td>4</td>
<td>Credit(s); prerequisite [1272 or 1282 or 1372 or 1572]; IT; Credit will not be granted if credit has been received for: MATH 2243;</td>
<td></td>
<td>Chen, Ming</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 2374</td>
<td>IT Multivariable Calculus and Vector Analysis</td>
<td>4</td>
<td>Credit(s); prerequisite [1272 or 1282 or 1372 or 1572]; IT; Credit will not be granted if credit has been received for: MATH 2263;</td>
<td></td>
<td>Raoof, Mohammadreza</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 2374</td>
<td>IT Multivariable Calculus and Vector Analysis</td>
<td>4</td>
<td>Credit(s); prerequisite [1272 or 1282 or 1372 or 1572]; IT; Credit will not be granted if credit has been received for: MATH 2263;</td>
<td></td>
<td>Mosher, Bryan</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 2574H</td>
<td>Honors Calculus IV</td>
<td>4</td>
<td>Credit(s); prerequisite [2573 or equiv]; IT Honors office approval;</td>
<td></td>
<td>Prikry, Karel L</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 3116</td>
<td>Topics in Elementary Math II: Short Course</td>
<td>2</td>
<td>Credit(s); prerequisite Grade of at least C- in 3113;</td>
<td></td>
<td>Lindaman, Brian J</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 3118</td>
<td>Topics in Elementary Mathematics II</td>
<td>4</td>
<td>Credit(s); prerequisite Grade of at least C- in 3113;</td>
<td></td>
<td>Lindaman, Brian J</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 3283W</td>
<td>Sequences, Series, and Foundations: Writing Intensive</td>
<td>4</td>
<td>Credit(s); prerequisite concurrent enrollment in [2243 or 2263 or 2373 or 2374]; Credit will not be granted if credit has been received for: MATH 2283;</td>
<td></td>
<td>Richter, Wayne H</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 3283W</td>
<td>Sequences, Series, and Foundations: Writing Intensive</td>
<td>4</td>
<td>Credit(s); prerequisite concurrent enrollment in [2243 or 2263 or 2373 or 2374]; Credit will not be granted if credit has been received for: MATH 2283;</td>
<td></td>
<td>Berget, Andrew Schaffer</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 393H</td>
<td>Honors Mathematics II</td>
<td>5</td>
<td>Credit(s); prerequisite [3592H or instr consent];</td>
<td></td>
<td>Keel, Markus</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 4065</td>
<td>Theory of Interest</td>
<td>3</td>
<td>Credit(s); prerequisite 1272 or 1372 or 1572; primarily for [mathematics, business] majors interested in actuarial science;</td>
<td></td>
<td>Rejto, Peter A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 4152</td>
<td>Elementary Mathematical Logic</td>
<td>3</td>
<td>Credit(s); prerequisite one soph math course or instr consent; Credit will not be granted if credit has been received for: MATH 5165;</td>
<td></td>
<td>Messing, William</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 4242</td>
<td>Applied Linear Algebra</td>
<td>4</td>
<td>Credit(s); prerequisite [2243 or 2373 or 2573]; Credit will not be granted if credit has been received for: MATH 4457;</td>
<td></td>
<td>Moeckel, Richard B</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 4281</td>
<td>Introduction to Modern Algebra</td>
<td>4</td>
<td>Credit(s); prerequisite 2283 or 3283 or instr consent;</td>
<td></td>
<td>Jiang, Dihua</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MATH 4428</td>
<td>Mathematical Modeling</td>
<td>4</td>
<td>Credit(s); prerequisite [2243 or 2373 or 2573];</td>
<td></td>
<td>Polacik, Peter</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>
MATH 4512 Differential Equations with Applications
3 credit(s); prereq 2243 or 2373 or 2573;
Instructor: Raoofi,Mohammadreza
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: Yomba,Emmanuel
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: Oman,Peter J
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, [2283 or 3283];
Instructor: Reiner,Victor Schorr
Description: Student may contact the instructor or department for information.

MATH 4990 Topics in Mathematics
1-4 credit(s), max credits 12, 12 repeats allowed;
Instructor: Jiang,Dihua
Description: Student may contact the instructor or department for information.

MATH 4991 Independent Study
1-4 credit(s), max credits 12, 12 repeats allowed;
Instructor: Roberts,Joel L
Description: Student may contact the instructor or department for information.

MATH 4992 Directed Reading
1-4 credit(s), max credits 12, 12 repeats allowed;
Instructor: Richter,Wayne H
Description: Student may contact the instructor or department for information.

MATH 4993 Directed Study
1-4 credit(s), max credits 12, 12 repeats allowed;
Instructor: Conn,Jack Frederi
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: Rejto,Peter A
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: Fristedt,Bert E
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: 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 credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Ober,Larry John
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Richter,Wayne H
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Rejto,Peter A
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Bobkov,Sergey G
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Reiner,Victor Schorr
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Rejto,Peter A
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Bobkov,Sergey G
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Reinert,Victor Schorr
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Bobkov,Sergey G
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Rejto,Peter A
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Bobkov,Sergey G
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Bobkov,Sergey G
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; prereq 2 sem upper div math, dept consent ; Meets CLE req of Writing Intensive;
Instructor: Bobkov,Sergey G
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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, dept consent; Meets CLE req of Writing Intensive; 
Instructor: Gray, Lawrence F 
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive) 
A-F only, 1 credit(s); max credits 2; prereq 2 sem upper div math, dept consent; Meets CLE req of Writing Intensive; 
Instructor: Calderer, Carme 
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive) 
A-F only, 1 credit(s); max credits 2; prereq 2 sem upper div math, dept consent; Meets CLE req of Writing Intensive; 
Instructor: Chen, Ming 
Description: Student may contact the instructor or department for information.

MATH 4997W Senior project (Writing Intensive) 
A-F only, 1 credit(s); max credits 2; prereq 2 sem upper div math, dept consent; Meets CLE req of Writing Intensive; 
Instructor: Spirn, Daniel 
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: Spirn, Daniel 
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: Griffith, Stephen P 
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: Stanton, Dennis W 
Description: Student may contact the instructor or department for information.

MATH 5286H Honors: Fundamental Structures of Algebra II 
4 credit(s); prereq 5285; 
Instructor: Reiner, Victor Schorr 
Description: This is a continuation of Math 5285, which is a prerequisite. We discuss rings, modules, and fields and apply some of these to understanding linear transformations and finitely generated abelian groups. Other highlights are proofs of impossibility for certain compass-and-straightedge constructions, and solvability by radicals. The book is again Artin’s “Algebra”, chapters 10-14 being our goal. The course is intended for math majors or others with an interest in learning about basic mathematical objects at a rigorous level. 
Style: 90% Lecture, 10% Discussion. 
Grading: 30% mid exam, 30% final exam, 40% problem solving. 
Exam Format: Take-home problems.

MATH 5336 Geometry II 
4 credit(s); prereq 5335; 
Instructor: Fristedt, Bert E 
Description: The major topics are: (i) projective geometry & (ii) n-dimensional Euclidean geometry from a vector viewpoint, with special attention to the 3-dimensional case. The geometry prerequisite is essential, typically Math 5335. But the quarter course Math 5331 taken in either Summer ’99 for Fall ’98 is a fully satisfactory prerequisite. Students who are wondering if some other background would suffice as a prerequisite should talk to the Math 5336 teacher before registering. The course is intended for undergraduates and masters students in mathematics, especially those interested in secondary mathematics teaching, & others with this interest, & also undergraduate and graduate students in many fields who are interested in the interconnections between geometry and linear algebra. 
Style: 85% Lecture, 15% Discussion. 
Grading: 55% mid exam, 28% final exam, 17% problem solving. 
Exam Format: Problem-solving and proofs, both of which often require essay-type responses.

MATH 5378 Differential Geometry 
4 credit(s); prereq [2263 or 2374 or 2573], [2243 or 2373 or 2574]; [2263 or 3283] recommended; 
Instructor: Lawson, Tyler 
Description: Student may contact the instructor or department for information.

MATH 5447 Theoretical Neuroscience 
4 credit(s); prereq 2243 or 2373 or 2574; 
Instructor: Nykamp, Duane Q 
Description: Student may contact the instructor or department for information.

MATH 5467 Introduction to the Mathematics of Image and Data Analysis 
4 credit(s); prereq [2243 or 2373 or 2573], [2283 or 2574 or 3283 or instr consent ]; [2263 or 2374], 4567 recommended; 
Instructor: Lerman, Gilad M 
Description: 

MATH 5486 Introduction to Numerical Methods II 
4 credit(s); prereq 5485; 
Instructor: Gower, Jason Eric 
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: Chen, Ming 
Description: 

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: Oliver, Peter John 
Description: Heat, wave, Laplace, Poisson and Helmholtz equations in higher dimensions; the maximum principle; separation of variables; Fourier transform; Green's functions and fundamental solutions; special functions, including Bessel functions and spherical harmonics; numerical solution methods
 including finite elements. Additional topics as time permits.

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 5616H Honors: Introduction to Analysis II
4 credit(s); prereq 5615;
Instructor: Conn, Jack Frederi
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] recommended; Credit will not be granted if credit has been received for: Stat 4101, Stat 5101.;
Instructor: Anderson, Greg William
Description: Math 5651 is a calculus-based introduction to probability. Single- and multivariable calculus are absolute prerequisites for the course. Students will be called upon to use their calculus knowledge extensively. But no previous study of probability theory is assumed. The required text for the course is Probability and Statistics, de Groot and Schervish, Third Edition. Coursework counting for the grade consists of two midterm exams, a final examination, and substantial weekly homework assignments. Exams will follow homework rather closely. Math 5651 and Stat 5101 are exactly the same course. Math 5651 is the prerequisite for the following three courses: Math 5652, Introduction to Stochastic Processes; Math 5654, Prediction and Filtering; and Stat 5102. Theory of Statistics II. The latter three courses are independent: none is a prerequisite for any other.
Style: 85% Lecture, 15% Discussion.
Grading: 50% mid exam, 35% final exam, 5% class participation, 10% problem solving.
Exam Format: Essay

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] recommended; 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 5652 Introduction to Stochastic Processes
4 credit(s); prereq 5651 or Stat 5101;
Instructor: Safronov, Mikhail V
Description: Student may contact the instructor or department for information.

MATH 5654 Prediction and Filtering
4 credit(s); prereq 5651 or Stat 5101;
Instructor: Jain, Naresh C
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: White, Dennis E
Description: Student may contact the instructor or department for information.

MATH 5900 Tutorial in Advanced Mathematics
A-F only, 1-6 credit(s), max credits 120, 20 repeats allowed;
Instructor: Calderer, Carme
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 8202 General Algebra
A-F only, 3 credit(s); prereq 8201 or instr consent;
Instructor: Messing, William
Description: Student may contact the instructor or department for information.

MATH 8208 Theory of Modular Forms and L-Functions
A-F only, 3 credit(s); prereq 8207 or instr consent;
Instructor: Garrett, Paul B
Description: Student may contact the instructor or department for information.

MATH 8254 Algebraic Geometry
A-F only, 3 credit(s); prereq 8253 or instr consent;
Instructor: Voronov, Alexander A
Description: This is the second semester of a one-year graduate-level course in Algebraic Geometry. We will study projective morphisms, sheaf cohomology, Serre duality, divisors, curves and Jacobians, including the Riemann-Roch theorem and the Hurwitz formula, relation to Analytic Geometry.
Style: 87% Lecture, 11% Discussion, 2% Guest Speakers.
Grading: 90% written homework, 10% class participation.

MATH 8272 Lie Groups and Lie Algebras
A-F only, 3 credit(s); prereq 8271 or instr consent;
Instructor: Jiang, Dihua
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: Sperber, Steven I.
Description: Student may contact the instructor or department for information.

MATH 8366 Riemannian Geometry
A-F only, 3 credit(s); prereq 8365 or instr consent;
Instructor: Guilliver II, Robert D
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 8446 Numerical Analysis of Differential Equations
A-F only, 3 credit(s); prereq 8445 or instr consent;
Instructor: Sayas, Francisco Javier
Description: Student may contact the instructor or department
MATH 8450 Topics in Numerical Analysis
A-F only, 1-3 credit(s), max credits 12, 12 repeats allowed;
prereq Grad math major or #; offered as one yr or one sem
crse as circumstances warrant;
Instructor: Cockburn,Bernardo
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: Moehle,Richard B
Description: Student may contact the instructor or department for information.

MATH 8540 Topics in Mathematical Biology
A-F only, 1-3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Othmer,Hans George
Description: Student may contact the instructor or department for information.

MATH 8580 Topics in Evolutionary Equations
A-F only, 1-3 credit(s), max credits 12, 12 repeats allowed;
prereq 8572 or instr consent; offered for one yr or one sem
crse as circumstances warrant;
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: Safonov,Mikhail V
Description: Student may contact the instructor or department for information.

MATH 8590 Topics in Partial Differential Equations
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
prereq 8502; offered for one yr or one sem as circumstances warrant;
Instructor: Sverak,Vladimir
Description: Student may contact the instructor or department for information.

MATH 8602 Real Analysis
A-F only, 3 credit(s); prereq 8601 or instr consent;
Instructor: Li,Tian-Jun
Description: Student may contact the instructor or department for information.

MATH 8652 Theory of Probability Including Measure Theory
3 credit(s); prereq 8651 or instr consent;
Instructor: Bramson,Maury Daniel
Description: Student may contact the instructor or department for information.

MATH 8660 Topics in Probability
1-3 credit(s), max credits 12, 12 repeats allowed;
Instructor: Krylov,Nicolaia Vladimi
Description: Student may contact the instructor or department for information.

MATH 8660 Topics in Combinatorics
A-F only, 1-3 credit(s), max credits 12, 12 repeats allowed;
prereq Grad math major or #; offered as one yr or one sem
crse as circumstances warrant;
Instructor: Chindris,Calin I
Description: A quiver is just a directed graph while a quiver representation assigns a vector space to each vertex and a linear map to each arrow. Quivers and their representations occur naturally in representation theory of algebras but they also have interesting connections with other areas such as algebraic combinatorics (Littlewood-Richardson coefficients, cluster combinatorics), algebraic geometry (quotient varieties) and physics (string theory). The first part of the course covers classical aspects of the theory including reflection functors and Gabriel's classification of quivers of finite representation type. In the second part of the course we will introduce various ideas and techniques from quiver invariant theory. We will study (semi-)invariants of quivers and (rather special) rational convex polyhedral cones associated with quivers. Finally, we will use these techniques from quiver theory to solve conjectures from algebraic combinatorics/representation theory such as the Saturation Conjecture and Okounkov's Log-Concavity Conjecture for Littlewood-Richardson coefficients.
Grading: Several problem sets

MATH 8702 Complex Analysis
A-F only, 3 credit(s); prereq 8701 or instr consent;
Instructor: Brenner,Eliot P
Description: Student may contact the instructor or department for information.

MATH 8790 Topics in Complex Analysis
A-F only, 1-3 credit(s), max credits 12, 12 repeats allowed;
prereq 8702 or instr consent; offered for one yr or one sem
crse as circumstances warrant;
Instructor: Marden,Albert
Description: Student may contact the instructor or department for information.

MATH 8802 Functional Analysis
A-F only, 3 credit(s); prereq 8801 or instr consent;
Instructor: Lewicka,Marta
Description: Student may contact the instructor or department for information.

MATH 8990 Topics in Mathematics
S-N only, 1-6 credit(s), max credits 24, 6 repeats allowed;
prereq instr consent;
Instructor: Baxter,John Robert
Description: Student may contact the instructor or department for information.

MATH 8993 Directed Study
S-N only, 1-6 credit(s), max credits 24, 6 repeats allowed;
prereq instr consent;
Instructor: Calderer,Carme
Description: Student may contact the instructor or department for information.

MATH 8993 Directed Study
S-N only, 1-6 credit(s), max credits 24, 6 repeats allowed;
prereq instr consent;
Instructor: Lyubeznik,Gennady
Description: Student may contact the instructor or department for information.

MATH 8993 Directed Study
S-N only, 1-6 credit(s), max credits 24, 6 repeats allowed;
prereq instr consent;
Instructor: Garrett,Paul B
Description: Student may contact the instructor or department for information.

MATH 8993 Directed Study
S-N only, 1-6 credit(s), max credits 24, 6 repeats allowed;
prereq instr consent;
Instructor: Baxter,John Robert
Description: Student may contact the instructor or department for information.

Mathematics Education
145 Peik Hall

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: Norman, Ke Wu
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: Monson, Debra Sue
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: Hansen, Heidi B
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: Jones, Lisa Marie
Description: Student may contact the instructor or department
for information.

MTHE 5356 Technology-Assisted Mathematics Instruction
3 credit(s);
Instructor: Wyberg, Terrence R
Description: Student may contact the instructor or department
for information.

MTHE 8591 Seminar: Mathematics Education
1-3 credit(s), max credits 3, 1 repeat allowed; prereq Math educ PhD student;
Instructor: Roehrig, Gillian Heather
Description: Student may contact the instructor or department
for information.

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: Klamecki, Barney Eugene
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: Klamecki, Barney Eugene
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: Klamecki, Barney Eugene
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: Klamecki, Barney Eugene
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: Klamecki, Barney Eugene
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: Klamecki, Barney Eugene
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: Chase, Thomas Richard
Description: Student may contact the instructor or department for information.

ME 4081H Mechanical Engineering Honors Thesis I
A-F only, 2 credit(s); prereq ME upper div honors student, instr consent;
Instructor: Sparrow, Ephraim M
Description: Student may contact the instructor or department for information.

ME 4131W Thermal Environmental Engineering Laboratory
A-F only, 4 credit(s); prereq 3222, 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 4331 Thermal Engineering Laboratory
A-F only, 4 credit(s); prereq [3321, 3322, 4031W], [IT upper div or grad student];
Instructor: Kulkarni, Kaustubh Shankar
Description: Student may contact the instructor or department for information.

ME 4431W Energy Conversion Systems Laboratory
A-F only, 4 credit(s); prereq 3333, 4031W, [IT upper div or grad student]; Meets CLE req of Writing Intensive;
Instructor: Kittelson, David Burnell
Description: Student may contact the instructor or department for information.

ME 5080 Topics in Mechanical Engineering: Fluid Mechanics of Blood Flow
1-4 credit(s), max credits 4, 1 repeat allowed; prereq IT upper div or grad student, submission of permission form, instr consent;
Instructor: Sparrow, Ephraim M
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: Durfee, William K
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 5105 HVAC System Design
A-F only, 4 credit(s); prereq 5103, [IT upper div or grad student];
Instructor: Kuehn, Thomas Howard
Description: This course focuses on the engineering design principles of heating, ventilating and air conditioning systems used in buildings. Students are divided into teams and then design the complete HVAC system for an actual mid-sized building located in the Twin Cities area to include specifying the central equipment and laying out and sizing the ductwork and hydronic piping systems. Teams are assigned to nearby participating HVAC design firms who provide workstations, software and design mentoring assistance for the students. In addition to accepted design practice as promulgated by ASHRAE, the students learn about building codes and standards and evolving concepts such as green buildings, LEED certification, and alternative energy options including wind and solar energy. Upon completion of this course, students should be able to design the entire mechanical system for a building using state-of-the-art technology. Design procedures are reviewed for heat exchangers, cooling towers, hydronic systems and air handling systems. Students design the HVAC system for an actual commercial building. The course is targeted to senior undergraduate and beginning engineering graduate students.
Style: 30% Lecture, 15% Discussion, 50% Small Group Activities, 5% Student Presentation.
Grading: 35% mid exam, 50% special projects, 15% written homework. Final design project: a) written report and drawings (25%), b) oral presentation (25%)
Exam Format: Problem solving.

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 5248 Vibration Engineering
4 credit(s); prereq IT upper div or grad, 3281;
Instructor: Kelso, Frank M
Description: Student may contact the instructor or department for information.

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 sensors, digitalization, preprocessing, 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.

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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: Student may contact the instructor or department for information.

ME 5351 Computational Heat Transfer  
A-F only, 4 credit(s); prereq IT upper div or grad student, 3322;  
Instructor: Garrick, Sean Clifford  
Description: Numerical solution of heat conduction and analogous physical processes. Development and use of a computer program to solve complex problems involving steady and unsteady heat conduction, fully developed flow and heat transfer in ducts, flow in porous media, and other special applications. Use of the computer program for design and optimization.  
Style: 70% Lecture, 30% Discussion.  
Grading: 50% special projects, 50% in-class presentation, 15% problem solving.

ME 5461 Internal Combustion Engines  
A-F only, 4 credit(s); prereq IT upper div or grad student, C or better in 3322 or 3324;  
Instructor: Kittelson, David Burnell  
Description: Student may contact the instructor or department for information.

ME 5462 Gas Turbines  
A-F only, 4 credit(s); prereq IT upper div or grad student, 3321, concurrent enrollment 3322;  
Instructor: Hoxie, Alison Behrens  
Description: Student may contact the instructor or department for information.

ME 5666 Modern Thermodynamics  
A-F only, 4 credit(s); prereq 3331 or equiv;  
Instructor: Dumitrascu, Traian  
Description: ME 5666 Modern Thermodynamics: Bio-NanoThermodynamics. This course focuses on applications of thermodynamic principles to biology and nanotechnology. It is designed as a two-instructor course to re-introduce the science of Thermodynamics and combine it with engineering modeling. The topics to be covered in the course include: Molecular Thermodynamics, Relations between Microscopic and Macroscopic Properties, Thermodynamic Constraints and Ensembles, Computational Tools at Thermodynamic Equilibrium, Chemical Thermodynamics, Irreversible and Non-equilibrium Thermodynamics, Thermodynamic Optimization, Thermodynamics in Nature, and Biothermodynamics. The students will be divided into groups of 4-5. Each group will be assigned a project, which requires application of the 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 8113 Advanced Aerosol/Particle Engineering  
A-F only, 3 credit(s), max credits 4, 1 repeat allowed; prereq IT grad student or instr consent;  
Instructor: Girshick, Steven L  
Description: Student may contact the instructor or department for information.

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 8243 Topics in Design: Design of Smart Products  
A-F only, 4 credit(s), max credits 12, 3 repeats allowed;  
Instructor: Durfee, William K  
Description: Student may contact the instructor or department for information.

ME 8253 Computational Nanomechanics  
3 credit(s); prereq IT grad student;  
Instructor: Dumitrascu, Traian  
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 8342 Advanced Heat Transfer II  
A-F only, 3 credit(s); prereq 8341;  
Instructor: Simon, Terrence W  
Description: Student may contact the instructor or department for information.

ME 8362 Introduction to Plasma Technology  
A-F only, 3 credit(s); prereq 8361;  
Instructor: Heberlein, Joachim Viktor R  
Description: Student may contact the instructor or department for information.

ME 8390 Advanced Topics in the Thermal Sciences  
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  
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 Mechanics of Blood Flow  
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.
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 9/15/2008 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.

MEDT 4064 Introduction to Clinical Immunohematology
A-F only, 2 credit(s); Credit will not be granted if credit has been received for: CLS 5064;
Instructor: George, Joanna L
Description: Student may contact the instructor or department for information.

MEDT 4065 Introduction to Clinical Immunohematology: Laboratory
A-F only, 2 credit(s); Credit will not be granted if credit has been received for: CLS 5065;
Instructor: George, Joanna L
Description: Student may contact the instructor or department for information.

MEDT 4085 Applied Clinical Hematology
S-N only, 2 credit(s); prereq 4251, 4252, 4253, enrolled MedT student, instr consent;
Instructor: Swinehart, Cheryl D
Description: The rotation is designed to: Provide comprehensive training in the techniques of hematology--including blood drawing, morphology, instrumentation, and body fluids. Special techniques in hemostasis and special hematology stains and morphology will also be covered. Target audience: Medical technology students who have completed their senior courses. Rotations are scheduled at various hospital/clinical sites.

MEDT 4088 Applied Diagnostic Microbiology
S-N only, 2 credit(s); prereq 4100, 4102, enrolled MedT student, instr consent;
Instructor: Solberg, Patricia Lee
Description: Student may contact the instructor or department for information.

MEDT 4089 Specialty Rotation
S-N only, 1 credit(s); prereq Completion of MedT preclinical professional courses, enrolled MedT student, instr consent;
Instructor: Wells, Carol Lee
Description: Student may contact the instructor or department for information.

MEDT 4090 Special Laboratory Methods
1-2 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: CLS 5090;
Instructor: George, Joanna L
Description: Student may contact the instructor or department for information.

MEDT 4100 Virology, Mycology, and Parasitology for Medical Technologists
A-F only, 2 credit(s); prereq One microbiology course with lab, one biochem course, enrolled MedT student, instr consent; Credit will not be granted if credit has been received for: CLS 5100;
Instructor: Wells, Carol Lee
Description: Student may contact the instructor or department for information.

MEDT 4127W Introduction to Management and Education I
A-F only, 1 credit(s); prereq instr consent; Credit will not be granted if credit has been received for: CLS 5127; Meets CLE req of Writing Intensive;
Instructor: Wiesner, Stephen Michael
Description: Student may contact the instructor or department for information.

MEDT 4252 Hematology II: Morphology and Correlation
A-F only, 2 credit(s); prereq [4251 or CLS 5251], enrolled MedT student, instr consent; Credit will not be granted if credit has been received for: CLS 5252;

Description: Student may contact the instructor or department for information.
MEDC 8100 Medicinal Chemistry Seminar
A-F only, 2 credit(s); prerequisite: MedC grad student or instr consent;
Instructor: Abul-Hajj, Yusuf J
Description: Students 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;
prerequisite: Grad med chem major or instr consent;
Instructor: Wagner, Carston R
Description: Students may contact the instructor or department for information.

MEDT 4320 Clinical Chemistry II: Lecture
A-F only, 2 credit(s); prerequisite: One organic chem course with lab, one biochem course, 4310 or CLS 5310;
Credit will not be granted if credit has been received for: CLS 5320;
Instructor: Spannaus-Martin, Donna J
Description: Students may contact the instructor or department for information.

MEDT 4321 Clinical Chemistry II: Laboratory Applications
A-F only, 2 credit(s); prerequisite: One organic chem course with lab, one biochem course, 4310 or CLS 5310;
Credit will not be granted if credit has been received for: CLS 5321;
Instructor: Spannaus-Martin, Donna J
Description: Students may contact the instructor or department for information.

MEDT 4253 Hemostasis
A-F only, 1 credit(s);
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: 66% Lecture, 33% Laboratory.
Exam Format: Multiple choice

MEDT 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.

MEST 3610 Topics in Medieval Studies: Medieval Stories
3 credit(s), max credits 24, 8 repeats allowed;
Instructor: Noakes, Susan J
Description: (Please note that this class will be taught entirely in English and is designed for those NOT majoring in French.) Reading/discussion of major forms of medieval tale written in France (comic, bawdy, moralizing, fantasy, historical) in ENGLISH TRANSLATION. Students will explore the relation of these tales to development of French and English (Anglo-Norman) culture, especially urbanization, class relations, marriage, role of Church. Texts will be chosen from the following: THE ARABIAN NIGHTS (one of the source texts for all medieval European stories); Marie de France, LAIS (stories of knights, fairies, etc., drawn from Briton sources, rewritten for the Anglo-Norman court); a collection of "fabliaux," comic verse tales set in market cities or towns, very influential for Chaucer; selections from miraculous stories about saints; and perhaps selections from THE FIFTEEN JOYS OF MARRIAGE, which satirizes medieval marital relations; and/or THE HUNDRED NEW TALES, a response to Boccaccio's DECAMERON written in fifteenth-century Burgundy, a realm long allied with England against France.
Style: 25% Lecture, 50% Discussion, 10% Small Group Activities, 15% Student Presentation.
Grading: 30% mid exam, 25% final exam, 20% in-class presentation, 25% class participation. Three "hour exams," each counting as 10% of final grade. Each student will participate in 4 small group class presentations, each counting as 5% of final grade.
Exam Format: Short essay identifications and longer interpretive or analytical essays.

University of Minnesota - Course Guide for Twin Cities Campus
Spring 2008

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of the medieval town, we can increase our comprehension of the idea of the city and how it works. There are no prerequisites - the course is open to all with an interest in cities. Lectures, films, analysis of documents, and presentations frame this course. Student discussion is encouraged.

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 25% mid exam, 35% final exam, 30% reports/papers, 10% class participation.

**Exam Format:** Essay

**MEST 3610 Topics in Medieval Studies: Medieval History:**

- **Credit:** 3 credit(s), max credits 24, 8 repeats allowed;
- **Instructor:** Lower, Michael T
- **Description:** Far from being a dark and dismal age when nothing happened and life was "nasty, brutish, and short," the Middle Ages was a time of rapid and sometimes disconcerting social, cultural, and political change. The central and later medieval periods (c.1050-c.1500) witnessed a revolution in agricultural and commercial techniques, a movement away from and then a new embracing of city life, a flowering of notions of chivalry and courtly love, an aggressive expansion outward, an experimentation with representative political institutions, and a profound engagement with new forms of religious life. By the end of the Middle Ages, a distinctly European culture had emerged. Some of the chief legacies of this culture - parliamentary institutions, common law, the university, and the state - are significant because they are still a feature of western society today. But our primary aim will be to engage with medieval people in their own right. Topics will include: heresy and inquisition; Abelard and Heloise; the Crusades; medieval castles and cathedrals; the Black Death; the Peasants Revolt; the Hundred Years War; Joan of Arc; the Italian Renaissance; and the voyages of exploration. The course is suitable for majors, non-majors, and transfer students alike.

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

**Grading:** 20% mid exam, 30% final exam, 30% reports/papers, 20% other evaluation. informal writing assignments

**Exam Format:** short answer and essay

**MEST 5610 Advanced Topics in Medieval Studies: Fall of the Roman Empire/Beginning of Middle Ages**

- **Credit:** 3 credit(s), max credits 15, 5 repeats allowed; prerequisite One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent
- **Instructor:** Bachrach, Bernard S
- **Description:** This course is intended for both advanced undergraduate and graduate students who are interested in the later Roman Empire and the early Middle Ages. Students will have the opportunity to read about various aspects of the fall of Rome and the development of medieval Europe and the Middle East both in terms of the surviving sources, both literary and archaeological, and also in regard to the most recent ideas put forth by professional scholars. Courses of this type are useful to undergraduates developing their ideas for a senior paper, for MA students working on Plan A papers, or for the Plan B MA thesis.

**MEST 8110 Seminar in Medieval Studies: Tristan & Tristram**

- **Credit:** A-F only, 3 credit(s), max credits 48, 16 repeats allowed;
- **Instructor:** Wakefield, Ray M
- **Description:** In this graduate seminar the Department of German, Scandinavian and Dutch offers a unique "two for one special": two great, medieval Germanic stories (Tristan by Gottfried von Strassburg and The Saga of Tristram and Isold), two medieval languages (Middle High German and Old Norse), two instructors and one only a day a week! The course is designed so that students only need reading knowledge of one of these languages, and qualified undergraduates are also encouraged to participate. We will look at such diverse topics as translating, narrative structure and cultural themes, character portrayal, and audience. The course will include sessions on medieval illustrations of the story, Wagner's Tristan, and a 20th-Century movie version. For further information see Ray Wakefield (wakef001@tc.umn.edu) or Kaaren Grimstad (grims001@tc.umn.edu). Interested undergraduates need a "magic number" to register, available from the Department or from the instructors.

**MEST 8110 Seminar in Medieval Studies: Musical & Scientific Thought from Plato to Newton**

- **Credit:** A-F only, 3 credit(s), max credits 48, 16 repeats allowed;
- **Instructor:** Ilitchi Currie, Gabriela
- **Description:** Student may contact the instructor or department for information.

**Microbiology**

**Microbiology**

**Microbiology**

**Microbiology**

**Microbiology**

**Microbiology**

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MICB 3301 Biology of Microorganisms
A-F only, 5 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

MICB 4121 Microbial Ecology and Applied Microbiology
A-F only, 3 credit(s); prereq 3301; Credit will not be granted if credit has been received for: ES 4121;
Instructor: Sadowsky, Michael Jay

MICB 4131 Immunology
3 credit(s); prereq [2022 or VPB 2022 or Biol 2032 or VPB 2032 or VBS 2032 or 3301 or Biol 3301], [Biol 3021 or Biol 3021 or BioC 4331];
Instructor: Molitor, Thomas William
Description: Molecular, genetic, and cellular bases for humoral and cell-mediated immunity; innate immunity; antigen recognition by B and T lymphocytes; interactions between lymphocytes and other cells of the immune system; cytokines; immunoregulation, and key aspects of clinical immunology. Students will learn the basic concepts of immunology with some practical applications. This course is targeted toward undergraduate majors in the biological sciences who have previously been introduced to biology and biochemistry. The material covered in the course will enable those interested to enroll in more advanced courses in this field. A major component of the class is cooperative learning through group problems and cases. A research paper covering the following areas is required by graduate students. Undergraduate and adult special students have the option of submitting a paper for extra credit. A problem to be completed by each group will be assigned weekly. Three tests will be given at the designated dates. Tests will be taken individually; then by group. An average of the individual group will represent the individual's score for each test. Textbook used is: Immunology, Kuby, 4th Ed. W.H. Freeman and Company, 2000. See Course Website for further information.
Style: 60% Lecture, 20% Discussion, group learning
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% quizzes, 20% problem solving.
Exam Format: essay and short answer

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 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 replication 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. These should accommodate students with distinct learning styles. Students will be asked to write informally (on index cards or in response to WebCT prompts). 4141W and 4171 have 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. 4141W students will also participate in ~8 mandatory small group meetings, focused on writing in the discipline. These meetings will be arranged on the first day of class.
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: 25% final exam, 35% reports/papers, 10% written homework, 20% additional semester exams, 10% class participation. Percentages above reflect the + participation grading option. Students can opt out of in-class participation, in which case midterms are worth 30%. Students cannot opt out of participation in writing groups/exercises. Bonus quizzes are worth 5%.
Exam Format: Multiple choice, short answer, short essay Study guides preview many of the possible essay questions.

MICB 4151 Molecular and Genetic Bases for Microbial Diseases
3 credit(s); prereq [3301, [4131 or Concurrent registration is required (or allowed) in 4131], [BIOC 3021 or BIOC 4331]; [Biol 4003 or GCD 3022] recommended; Inst urct: Cleary, Paul Patrick
Description: Micb 4151 will explore the biochemical and genetic basis for bacterial and fungal infections. The first few weeks will focus on emerging infections and the evolution of microbial pathogens. Remaining lectures and exercises will investigate the action of microbial toxins, the importance of nutrition and surface molecules as determinants of host-tissue specificity of infection, and mechanisms by which microbes avoid or counter human immunological defenses. The course is targeted at advanced biology undergraduates and graduate students in microbiology, veterinary medicine, food microbiology and other professional biology related programs. 40% of the class are microbiology majors. Knowledge of basic microbiology, immunology and biochemistry is important. The text book is required. Grades will be based on three examinations, team research paper and an individual research paper. The final grade is not based on curved.
Style: 80% Lecture, 20% Discussion.
Grading: 62% mid exam, 32% reports/papers, 1% in-class presentation, 5% problem solving.
Exam Format: Short essay

MICB 4171 Biology, Genetics, and Pathogenesis of Viruses: Writing Intensive
A-F only, 3 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 4141W;
Instructor: Schiff, Leslie Ann
Description: MicB 4171 is aimed at upper level undergraduates. The course content is appropriate for majors in biology,
MICB 4235 Advanced Laboratory: Virology, Immunology, and Microbial Genetics
3 credit(s); prerequisite 3301, BIOC 3021, two [one completed, one concurrent] from [4131, 4141W, 4151, 4171];
Instructor: Bresnahan, Wade
Description: This laboratory course provides students with hands-on training using state of the art molecular biology techniques to address fundamental questions in virology and molecular biology. Emphasis will be placed on virology, molecular biology, genetics, and molecular biology, however, all techniques covered in this course are widely used in all parts of the field, including virology, molecular biology, genetics, and molecular biology. 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% final exam, 20% final exam, 30% reports/papers, 5% quizzes, 5% class participation.
Exam Format: Multiple choice, matching, true/false, short answer, and essay questions.

MICA 8003 Immunity and Immunopathology
4 credit(s); prerequisite upper level undergraduate immunology course or instructor consent;
Instructor: Jenkins, Marc
Description: Student may contact the instructor or department for information.

MICA 8004 Cellular and Cancer Biology
A-F only, 4 credit(s); prerequisite [One undergraduate or graduate course in [biochemistry, cell biology]] or instructor consent;
Instructor: Largaespada, David
Description: Student may contact the instructor or department for information.

MICA 8009 Biochemical Aspects of Normal and Abnormal Cell Growth and Cell Death
2 credit(s); prerequisite 8004 or [BioC 3021, Biol 4004] or instructor consent;
Instructor: Ahmed, Khalil
Description: Student may contact the instructor or department for information.

MICA 8094 Research in Microbiology, Immunology, and Cancer Biology
S-N only, 1 credit(s), max credits 5, 5 repeats allowed; prerequisite 1st yr MICA grad student;
Instructor: Largaespada, David
Description: Student may contact the instructor or department for information.

MICA 910 Seminar: Faculty Research Topics
S-N only, 1 credit(s), max credits 10, 10 repeats allowed; prerequisite [MIPC or MICA] grad student or;
Instructor: Armstrong, Sandra
Description: Student may contact the instructor or department for information.

MIL 204 Military Science II Leadership Lab
A-F only, 0 credit(s); prerequisite 2021;
Instructor: Boisen, David
Description: Student may contact the instructor or department for information.

MIL 304 Military Science III Leadership Lab 304
A-F only, 0 credit(s); prerequisite 302;
Instructor: Mayo, Sean
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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.
### Modern Greek

**325 Social Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDGK 1002</td>
<td>Beginning Modern Greek II</td>
<td>4</td>
<td>Concurrent registration is required (or allowed)</td>
<td>Stavrou, Theofanis G</td>
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<tr>
<td>MDGK 1004</td>
<td>Intermediate Modern Greek II</td>
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<td>Swarthout, David Brian</td>
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### Molecular Cellular Developmental Biology and Genetics

**250 Biological Sciences**

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<th>Course Code</th>
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<th>Instructor</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MCDG 8900</td>
<td>Student Research Seminar</td>
<td>1-5</td>
<td>Grad MCDG student or dept consent</td>
<td>Neufeld, Thomas Peter</td>
<td>Description may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MCDG 8910</td>
<td>Journal Presentations</td>
<td>1-5</td>
<td>Grad MCDG, MCDG major or dept consent</td>
<td>Shaw, Jocelyn E</td>
<td>Description may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MCDG 8950</td>
<td>Teaching Practicum</td>
<td>1-5</td>
<td>Grad MCDG or MCDG major or dept consent</td>
<td>Shaw, Jocelyn E</td>
<td>Description may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MCDG 8993</td>
<td>Directed Studies</td>
<td>1-5</td>
<td>Grad MCDG student or dept consent</td>
<td>Neufeld, Thomas Peter</td>
<td>Description may contact the instructor or department for information.</td>
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<tr>
<td>MCDG 8994</td>
<td>Research</td>
<td>1-5</td>
<td>Grad MCDG or dept consent</td>
<td>Shaw, Jocelyn E</td>
<td>Description may contact the instructor or department for information.</td>
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### Mortuary Science

**A-275 Mayo (box 740)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>MORT 3016</td>
<td>Funeral Service Marketing and Merchandising</td>
<td>3</td>
<td>Mortuary science major</td>
<td>Christensen, Stephanie Lee</td>
<td>Description may contact the instructor or department for information.</td>
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<td>MORT 3019</td>
<td>Funeral Practice II</td>
<td>3</td>
<td>Mortuary science major</td>
<td>Mathews, Michael Clark</td>
<td>Description may contact the instructor or department for information.</td>
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</tbody>
</table>

This information is accurate as of 9/15/2008 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.
MORT 3022W Funeral Service Counseling
A-F only, 3 credit(s); prereq 3021W; Meets CLE req of Writing Intensive;
Instructor: Swarhout, 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: Mesiow, Doug
Description: Student may contact the instructor or department for information.

MORT 3059 Pathology
A-F only, 3 credit(s); prereq Course in human anatomy/physiology;
Instructor: Mathews, Michael Clark
Description: Student may contact the instructor or department for information.

MORT 3061 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 Clark
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.

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: This course examines the origins and development of Western practices of collecting and exhibiting artifacts and natural specimens from the Renaissance through the present. As part of the course, students become co-curators of an exhibition, Cabinet of Curiosities, to open at the Weisman Art Museum in February 2001. Students work with visiting artist Mark Dion and Weisman director of education Colleen Sheehy to create the exhibition from the multitude of U of M artificial and specimen, ranging from plant, rock, animal and insect specimens to art, medical equipment, books, costumes, and toys. The course explores collecting and display as forms of knowledge production, with special emphasis on the cabinet of curiosities. These were large cabinets where collectors displayed wonders plucked from the natural and human worlds in careful, evocative arrangements. These ideas will be put into practice through the construction of our own cabinet of curiosities, using U of M collections. Mark Dion is an American artist who employs the methods of an ecologist, biochemist, detective, and archaeologist. He has created dozens of intriguing installation works in internationally, including the Thames Dig at the new Tate Gallery. Colleen Sheehy is director of education at the Weisman Art Museum and adjunct faculty in American studies at the University of Minnesota. She teaches museum studies classes and has organized dozens of exhibitions and public programs.

MST 5020 Internship
S-N only, 1-4 credit(s), max credits 32, 32 repeats allowed; prereq 5011, 5012, dept consent;
Instructor: Sheehy, Colleen J
Description: This course examines the origins and development of Western practices of collecting and exhibiting artifacts and natural specimens from the Renaissance through the present. As part of the course, students become co-curators of an exhibition, Cabinet of Curiosities, to open at the Weisman Art Museum in February 2001. Students work with visiting artist Mark Dion and Weisman director of education Colleen Sheehy to create the exhibition from the multitude of U of M artificial and specimen, ranging from plant, rock, animal and insect specimens to art, medical equipment, books, costumes, and toys. The course explores collecting and display as forms of knowledge production, with special emphasis on the cabinet of curiosities. These were large cabinets where collectors displayed wonders plucked from the natural and human worlds in careful, evocative arrangements. These ideas will be put into practice through the construction of our own cabinet of curiosities, using U of M collections. Mark Dion is an American artist who employs the methods of an ecologist, biochemist, detective, and archaeologist. He has created dozens of intriguing installation works in internationally, including the Thames Dig at the new Tate Gallery. Colleen Sheehy is director of education at the Weisman Art Museum and adjunct faculty in American studies at the University of Minnesota. She teaches museum studies classes and has organized dozens of exhibitions and public programs.

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Tate Gallery. Colleen Sheehy is director of education at the Weisman Art Museum and adjunct faculty in American studies at the University of Minnesota. She teaches museum studies classes and has organized dozens of exhibitions and public programs.

MST 5020 Internship
S-N only, 1-4 credit(s), max credits 32, 32 repeats allowed; prerequisite S011, S012, dept consent;
Instructor: Murdoch, 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

Music
100 Ferguson Hall

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 '70s, 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 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: Schwandt, Kevin Carl
Description: Student may contact the instructor or department for information.

MUS 1260 Voice Class
2 credit(s), max credits 4; prerequisite Basic musicianship for learning and performing simple songs;
Instructor: Fadell, Rebecca Grace
Description: Student may contact the instructor or department for information.

MUS 1260 Voice Class
2 credit(s), max credits 4; prerequisite Basic musicianship for learning and performing simple songs;
Instructor: Ten Brink, Jonathan Marshall
Description: Student may contact the instructor or department for information.

MUS 1260 Voice Class
2 credit(s), max credits 4; prerequisite Basic musicianship for learning and performing simple songs;
Instructor: Noonan, Noelle
Description: Student may contact the instructor or department for information.

MUS 1260 Voice Class
2 credit(s), max credits 4; prerequisite Basic musicianship for learning and performing simple songs;
Instructor: Schoenecker, Ann Elise
Description: Student may contact the instructor or department for information.

MUS 1472 Guitar: Class Lessons II
A-F only, 2 credit(s); prerequisite 1471 or instr consent;
Instructor: Fleigel, James F
Description: Student may contact the instructor or department for information.

MUS 1472 Guitar: Class Lessons II
A-F only, 2 credit(s); prerequisite 1471 or instr consent;
Instructor: Hodges, Jan Jeffrey
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); prerequisite [[1501, 1511] with grade of at least C-] or diagnostic test administered by School of Music;
Instructor: Bribitzer-Stull, Matt
Description: Student may contact the instructor or department for information.

MUS 1512 Ear-Training and Sight-Singing II
A-F only, 1 credit(s); prerequisite [[1501, 1511] with grade of at least C- or diagnostic exam administered by School of Music], [music major or instr consent];
Instructor: Bribitzer-Stull, Matt
Description: Student may contact the instructor or department for information.

MUS 1905 Topics: Freshman Seminar: Bob Dylan
A-F only, 3 credit(s); prerequisite freshman;
Instructor: Lubet, Alex J
Description: Student may contact the instructor or department for information.

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: Schwandt, Kevin Carl
Description: Student may contact the instructor or department for information.

MUS 3230 Chorus
1 credit(s), max credits 8, 8 repeats allowed; prerequisite Choral and/or instrumental music background, audition, instr consent;
Instructor: Miller, Bradley Alan
Description: Student may contact the instructor or department for information.

MUS 3230 Chorus
1 credit(s), max credits 8, 8 repeats allowed; prerequisite Choral and/or instrumental music background, audition, instr consent;
Instructor: Sweet, Emilie D
Description: Student may contact the instructor or department for information.

MUS 3230 Chorus
1 credit(s), max credits 8, 8 repeats allowed; prerequisite Choral and/or instrumental music background, audition, instr consent;
MUS 3262 English Diction for Singers
A-F only, 1 credit(s); prereq Voice or choral music major, concurrent enrollment in applied voice;
Instructor: Maurice, Glenda A
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 enrollment in applied voice;
Instructor: Del Santo, Jean Marie
Description: The course covers rules of lyric diction, use of International Phonetic Alphabet, elementary grammar and song vocabulary. Students will transcribe song texts into IPA and perform 3-4 French melodies or arias in class for critique by professor and colleagues. An off campus concert may be included as part of the final project. Enrollment limited to students who are applied or principal voice majors, presently studying voice and/or coaches and accompanists.
Style: 25% Lecture, 25% drill, 50% in class performance
Grading: 25% mid exam, 25% final exam, 15% quizzes, 35% other evaluation. Performances
Exam Format: written, oral and performance

MUS 3331 Jazz Improvisation I
A-F only, 2 credit(s); prereq Music major or instr consent;
Instructor: Sorenson, Dean Patrick
Description: Jazz Improv I allows students to experience and learn about the basics of jazz improvisation. Classic jazz tunes are used as the core curriculum, and students will play on these tunes regularly as they receive instruction on chord symbol interpretation, chord/scale relationships, and jazz solo construction. Students will also transcribe a classic jazz solo of their choosing, and perform the transcription for the class.
Players of all instruments, including vocalists, are welcome.
Style: 20% Lecture, 10% Discussion, 70% Student Presentation.
Grading: 20% final exam, 20% special projects, 20% attendance, 40% in-class presentation. "In Class Participation" refers to the weekly homework that will be assigned. These assignments will be performed for the class and graded accordingly.
Exam Format: The final exam will be very similar to the weekly performances. It should be a culmination of all that has been studied over the entire semester

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: Rossmiller, Adam Eugene
Description: Student may contact the instructor or department for information.

MUS 3380 Gospel Choir
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
Instructor: Moore, 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: Diem, Timothy W
Description: The Campus Band is a laboratory course designed for undergraduate and graduate students representing a wide variety of academic disciplines across campus. The goal of this organization is to provide students with high level musical experiences through the study of works for large wind band. The group performs twice during the semester. No audition is necessary.
Style: rehearsal
Grading: rehearsal preparation and performance

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: Kirchhoff, Craig J
Description: A select ensemble comprising the University's finest graduate and undergraduate wind and percussion musicians. Performs 5 to 6 concerts on and off campus each academic year. Admission 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: McManus, Andy
Description: Student may contact the instructor or department for information.

MUS 3460 Ensemble for the Performance of Early Music, c900-1750
A-F only, 1 credit(s), max credits 8, 8 repeats allowed;
Instructor: Comeaux, Garrick
Description: Student may contact the instructor or department...
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 3490 Athletics Bands  
A-F only, 1 credit(s), max credits 16, 16 repeats allowed;  
prereq instr consent;  
Instructor: Schneider, Mary K  
Description: Three 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.  
Style: rehearsal  
Grading: rehearsal preparation and performance

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 3509 Review of Tonal Theory IV  
A-F only, 2 credit(s); prereq Grad music student or instr consent;  
Instructor: Orosz, Jeremy W  
Description: Student may contact the instructor or department for information.

MUS 3512 Ear-Training and Sight-Singing IV  
A-F only, 1 credit(s); prereq [3501, 3511] with a 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 3519 Review of Ear-Training and Sight-Singing  
A-F only, 1 credit(s); prereq Grad student in music or instr consent;  
Instructor: Orosz, Jeremy W  
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: Harney, 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.  
Grading: 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 1503, 3602, music major, 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, 4 credit(s); prereq 3502 or instr consent;  
Instructor: Pireh, Cyrus  
Description: Student may contact the instructor or department for information.

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: mccullough45@umn.edu for permission to add.  
Style: 10% Lecture, 25% Discussion, 25% Laboratory. Individual work with students  
Grading: 50% class participation, 50% other evaluation.  
Attendance

MUS 5230 Chorus  
1 credit(s), max credits 8, 8 repeats allowed; prereq Choral and/or instrumental music background; audition, instr consent;  
Instructor: Miller, Bradley Alan  
Description: Student may contact the instructor or department for information.

MUS 5230 Chorus
MUS 5230 Chorus
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prerequisite Choral and/or instrumental music background; audition, instructor consent;
Instructor: Mehaffey, Matthew Wayne
Description: Student may contact the instructor or department for information.

MUS 5240 Chamber Singers
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prerequisite audition, instructor consent;
Instructor: Romey, Kathy Saltzman
Description: Student may contact the instructor or department for information.

MUS 5250 Opera Workshop and Ensemble
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prerequisite audition, instructor 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 5250 Opera Workshop and Ensemble
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prerequisite audition, instructor consent;
Instructor: Anderson, Laura Elizabeth
Description: Student may contact the instructor or department for information.

MUS 5272 Diction for Singers II
A-F only, 2 credit(s); prerequisite 12 or MusA 1304 or grad music major or instructor consent;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MUS 5280 Opera Theatre
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prerequisite audition, instructor 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, 8 repeats allowed; prerequisite audition, instructor consent;
Instructor: Hey, Philip C
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; prerequisite audition, instructor consent;
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; prerequisite audition, instructor consent;
Instructor: Kirchhoff, Craig J
Description: A select ensemble comprising the University's finest graduate and undergraduate wind and percussion musicians. Performs 5 to 6 concerts on and off campus each academic year. Admission 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; prerequisite audition, instructor consent;
Instructor: Smith, Mark Russell
Description: Student may contact the instructor or department for information.

MUS 5430 New Music Ensemble
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prerequisite instructor consent;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MUS 5450 Orchestral Repertoire
A-F only, 1-3 credit(s), max credits 9, 3 repeats allowed; prerequisite instructor consent;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MUS 5460 Ensemble for the Performance of Early Music, c900-1750
A-F only, 1 credit(s), max credits 8, 8 repeats allowed; prerequisite instructor consent;
Instructor: Comeaux, Garrick

This information is accurate as of 9/15/2008 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 5466 Guitar Pedagogy
A-F only, 2 credit(s); prerequisite Guitar principal or major or instructor consent
Instructor: Fiegel, James F
Description: Student may contact the instructor or department for information.

MUS 5485 Transcription for Winds
2 credit(s); prerequisite 3502 or instructor consent
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MUS 5490 Percussion Ensemble
A-F only, 1 credit(s), maximum credits 10, 10 repeats allowed; prerequisite instructor 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), maximum credits 10, 10 repeats allowed; prerequisite instructor consent
Instructor: Carruthers, Krista Lynn Frances
Description: Student may contact the instructor or department for information.

MUS 5490 Percussion Ensemble
A-F only, 1 credit(s), maximum credits 10, 10 repeats allowed; prerequisite instructor consent
Instructor: Sutrisno, Joko
Description: Student may contact the instructor or department for information.

MUS 5522 Orchestration II
A-F only, 3 credit(s); prerequisite 5561
Instructor: Dillon, James
Description: Student may contact the instructor or department for information.

MUS 5573 Analysis of Late-Romantic Orchestral Literature
A-F only, 3 credit(s); prerequisite 3502 or Theory IV Exam or instructor consent 3504 or equivalent recommended
Instructor: Bribitzer-Stull, Matt
Description: MUS 573: Analysis of Late-Romantic Orchestral Literature

MUS 5597 Music and Text
A-F only, 3 credit(s); prerequisite 5591 or instructor consent
Instructor: Geers, Doug
Description: The course investigates questions of time and time-perception as they pertain to the arts in general and to performance arts in particular. We draw on research and theoretical writing form cognitive and experimental psychology, philosophy, music theory and modern physics to study formal conceptions of the human experience of time. The bulk of the course will revolve around the study of a selected number of works of music, dance, theater, video, installations and film; works outside of film and cinema are emphasized.

MUS 5599 Topics in Music: Advanced Indian Music
3 credit(s); prerequisite 3502 or equivalent
Instructor: Goswami, Pooja
Description: Learn the cornerstones of North Indian Classical Music from a master artist and scholar. Continuing from Introduction to North Indian Vocal Music? (offered as MUS 5590 in Fall 2007), 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, 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. Prerequisite: MUS 5590
Offered Fall 2007 or by prior permission from the instructor.
Class Time: 50% singing, 15% guest lecture-demonstration, 20% lecture, 15% discussion, Course Content: Musical Building Blocks: Raga Tala Instruments Advanced Vocal Training Khylar, Tarana, Chaturang, Dadra, Geet Classical Traditions in India Current and obsolete forms of Hindustani Music and Carnatic Music Musical Dialogues Classical, Folk and Film Music Popular and Fusion Music Music, society and culture Social Organization in Hindustani Music Music and Women Music and Religion Style: 20% Lecture, 15% Discussion, 50% Small Group Activities, 15% Guest Speakers.
Grading: 40% final exam, 25% reports/papers, 15% quizzes, 20% class participation. Final exam will be involve vocal performance.
Exam Format: Multiple choice and short answers (2-3 sentences).

MUS 5950 Topics in Music: Vernacular Music of South Asia
3 credit(s), max credits 15, 15 repeats allowed;
Instructor: Schultz, Anna Christine
Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Free Jazz--From Structure to Gesture
3 credit(s), max credits 15, 15 repeats allowed;
Instructor: Mazzola PhD, Guerino
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 (Sironi, 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.

MUS 5950 Topics in Music: The Black Atlantic: Afro-Caribbean Music & Afropop
3 credit(s), max credits 15, 15 repeats allowed;
Instructor: Currie, Scott
Description: Student may contact the instructor or department for information.

MUS 8112 Instrumental Repertoire: Reduction and Realization
A-F only, 2 credit(s); prerequisite Grad student in accompanying/conducting;
Instructor: Kawai, Noriko
Description: Student may contact the instructor or department for information.

MUS 8183 Opera History in Context: Verdi and Britten
A-F only, 3 credit(s); prerequisite Grad student in music or instr consent;
Instructor: Walsh, David Allan
Description: Opera History examines the development of Opera in the context of other artistic, social, cultural, and political events; movements in church music in the 19th and 20th century. The course will focus on two representative composers and their works: Giuseppe Verdi (La Traviata, Don Carlos, Aida, Otello, and Falstaff) and Benjamin Britten (Peter Grimes, Turn of the Screw, A Midsummer Nights Dream, The Church Parables, and Death in Venice). This is not a survey course focusing on dates and names but rather an in-depth, musico-dramatic examination of the works of these composers and the forces which shaped their composition. One third of class time will be spent studying recordings and videos/DVDs representing contrasting approaches to the performance and staging of these works. All of these works are available in the Music Library and portions of them will be made available to registered students online during the semester. Students will be evaluated on the basis of two written assignments (1500 word papers), one 20-minute oral presentation, and one short take-home test, as well as in-class participation.

MUS 8299 Performance in Choral Conducting
A-F only, 3 credit(s); prerequisite instr consent;
Instructor: Romey, Kathy Saltzman
Description: Student may contact the instructor or department for information.

MUS 8450 Graduate Seminar in Conducting
A-F only, 3-4 credit(s), max credits 32, 8 repeats allowed; prerequisite Grad student in conducting or instr consent;
Instructor: Kirchoff, Craig J
Description: Student may contact the instructor or department for information.

MUS 8450 Graduate Seminar in Conducting
A-F only, 3-4 credit(s), max credits 32, 8 repeats allowed; prerequisite 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); prerequisite 8472, instr consent;
Instructor: Kirchoff, 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; prerequisite instr consent;
Instructor: Lubet, 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; prerequisite instr consent;
Instructor: Geers, Doug
Description: Student may contact the instructor or department for information.

MUS 8560 Readings in Music Theory
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prerequisite instr consent;
Instructor: Mazzola PhD, Guerino
Description: Basic Mathematics for Music Theory This course meets the demand for a formal competence to understand and work in mathematically articulated music theory, such as American Set Theory, Transformational Theory, and European Mathematical Music Theory. It is also a basis for programming
computationally intense music software. The course will cover a basic instruction in sets, numbers, graphs, groups, modules and vector spaces, categories, Fourier and FM theory, and FFT algorithms. The course content is motivated and complemented by numerous examples and exercises from the literature of music theory. The material is presented using supplementary online material of a modular course in mathematics previously developed at the University of Zurich.

MUS 8580 Topics in Tonal Analysis: Schubert’s Harmonic Practice
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prereq instr consent;
Instructor: Damschroder, David A
Description: Close analysis of works by Franz Schubert, with emphasis on chromaticism, enharmonicism, tonicization, elision, mixture, sequence, linear progression, form, and text/music relations. A wide range of music from all phases of Schubert’s career will be analyzed. Though the course will survey existing analytical approaches, as represented in recent articles and books, the primarily focus will be on the instructor’s current research and innovative analytical methodology as articulated in his forthcoming book, Schubert’s Harmonic Practice. As an 8xxx seminar, the course will emphasize high-level analytical thinking of a speculative nature and the relationship between these new speculations and traditional analytical approaches. Admission will be granted to qualified M.A. and Ph.D. students in music theory, composition, and musicology. Students in other degree programs will be admitted only if previous work in analysis confirms the capacity to work at the intended level. Homework submissions, attendance, class participation, two class presentations, and a substantial analytical paper (minimum 20 pages, including music examples) will all contribute to the determination of the term grade.

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: Mercer-Taylor, Peter J
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: Ilnitchi Currie, Gabriela
Description: Student may contact the instructor or department for information.

Music Applied
100 Ferguson Hall

MUSA 1102 Harpsichord: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 1103 Organ: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq dept consent;
Instructor: Fadell, Rebecca Grace
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq dept consent;
Instructor: Ten Brink, Jonathan Marshall
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq dept consent;
Instructor: Noonan, Noelle
Description: Student may contact the instructor or department for information.

MUSA 1105 Violin: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq Departmental Consent Required;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MUSA 1105 Violin: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq Departmental Consent Required;
Instructor: Moiseeva, Natalia
Description: Student may contact the instructor or department for information.

MUSA 1106 Viola: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq Departmental Consent Required;
Instructor: Petraborg, Kirsti Johanna
Description: Student may contact the instructor or department for information.

MUSA 1106 Viola: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq Departmental Consent Required;
Instructor: Knoepfel, Justin C
Description: Student may contact the instructor or department for information.

MUSA 1107 Cello: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq dept consent;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MUSA 1107 Cello: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq dept consent;
Instructor: Nelson, Gregory A
Description: Student may contact the instructor or department for information.

MUSA 1107 Cello: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq dept consent;
Instructor: Alvarez, Ramiro R
Description: Student may contact the instructor or department for information.

MUSA 1108 Double Bass: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; prereq dept consent;
Instructor: Clute, James Lewis
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 1109 Flute: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent;
Instructor: McNamara,Erica Lynne
Description: Student may contact the instructor or department for information.

MUSA 1109 Flute: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent;
Instructor: Wilson,Christina D
Description: Student may contact the instructor or department for information.

MUSA 1111 Oboe: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent;
Instructor: McKean, Caitlin Patricia
Description: Student may contact the instructor or department for information.

MUSA 1112 Clarinet: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent;
Instructor: Chung, Min-jung
Description: Student may contact the instructor or department for information.

MUSA 1113 Saxophone: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent;
Instructor: Duncan, Preston Chadwick
Description: Student may contact the instructor or department for information.

MUSA 1113 Saxophone: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent;
Instructor: Dromgold, Allison Frances
Description: Student may contact the instructor or department for information.

MUSA 1114 Bassoon: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent;
Instructor: Kern, Stacy J
Description: Student may contact the instructor or department for information.

MUSA 1115 French Horn: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent;
Instructor: Wolf, Jenna M
Description: Student may contact the instructor or department for information.

MUSA 1115 French Horn: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed;
prereq dept consent;
Instructor: Jameson, Aaron L
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: Ball, David Richard
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: Alexander, Joseph Steven
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 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 1119 Tuba: 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: Povolny, John Gregory
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 1123 Guitar: Elective
A-F only, 2 credit(s), max credits 16, 8 repeats allowed; 
prereq dept consent; 
Instructor: Fiegel, James F 
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: Jonker, Jacob Peter 
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: Newbrough, Steven Thomas 
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: Hodges, Ian Jeffrey 
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: Shockley, Rebecca P 
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 1305 Violin–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 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.

MUSA 1306 Viola–Major 
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Konkol, Korey Bernard 
Description: Student may contact the instructor or department for information.
MUSA 1306 Viola--Major  
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 1307 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 1308 Double Bass--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Lloyd,Peter M  
Description: Student may contact the instructor or department for information.

MUSA 1308 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 1308 Double Bass--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 1309 Flute-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 1309 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 1311 Oboe--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 1311 Oboe--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 1312 Clarinet--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 1312 Clarinet--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 1316 Trumpet--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Meffert-Nelson,Karrin Diane  
Description: Student may contact the instructor or department for information.

MUSA 1312 Clarinet--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 1313 Saxophone--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 1313 Saxophone--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Grivna,Brian E  
Description: Student may contact the instructor or department for information.

MUSA 1313 Saxophone--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 1314 Bassoon--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 1314 Bassoon--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 1314 Bassoon--Major  
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 1315 French Horn--Major  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Winslow,Herbert Eugene  
Description: Student may contact the instructor or department for information.

MUSA 1315 French Horn--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.
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 1316 Trumpet--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 1317 Trombone--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.

MUSA 1317 Trombone--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.

MUSA 1318 Euphonium--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.

MUSA 1318 Euphonium--Major 
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Ashworth, Thomas Jackson 
Description: Student may contact the instructor or department 
for information.

MUSA 1318 Euphonium--Major 
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Ashworth, Thomas Jackson 
Description: Student may contact the instructor or department 
for information.

MUSA 1319 Tuba--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.

MUSA 1319 Tuba--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.

MUSA 1319 Tuba--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.

MUSA 1321 Percussion--Major 
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 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: Yeager, Steven Michael 
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: Kienzle, 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: Ashworth, Thomas Jackson 
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: Tranter, John Harrington 
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: Tranter, John Harrington 
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: Tranter, John Harrington 
Description: Student may contact the instructor or department 
for information.

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: 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: Fadell, Rebecca Grace 
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: Ten Brink, Jonathan Marshall 
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: Ten Brink, Jonathan Marshall 
Description: Student may contact the instructor or department 
for information.
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Spring 2008

for information.

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<th>Course Code</th>
<th>Course Title</th>
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<th>Description</th>
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<tr>
<td>MUSA 1404</td>
<td>Voice--Secondary</td>
<td>Chung,Min-jung</td>
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This information is accurate as of 9/15/2008 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, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Ball, David Richard  
Description: Student may contact the instructor or department for information.

MUSA 1417 Trombone--Secondary  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Alexander, Joseph Steven  
Description: Student may contact the instructor or department for information.

MUSA 1418 Euphonium--Secondary  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Adams, Jared O  
Description: Student may contact the instructor or department for information.

MUSA 1418 Euphonium--Secondary  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Ball, David Richard  
Description: Student may contact the instructor or department for information.

MUSA 1419 Tuba--Secondary  
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 1421 Percussion--Secondary  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Pavlovy, John Gregory  
Description: Student may contact the instructor or department for information.

MUSA 1421 Percussion--Secondary  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Rappel, Adam A  
Description: Student may contact the instructor or department for information.

MUSA 1423 Guitar--Secondary  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Newbrough, Steven Thomas  
Description: Student may contact the instructor or department for information.

MUSA 1423 Guitar--Secondary  
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;  
prereq Audition, dept consent;  
Instructor: Hodges, Ian Jeffrey  
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: Artymiw, 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: Billmeyer, Dean W  
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: Weller, Lawrence E  
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, Glenda A  
Description: Student may contact the instructor or department for information.
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: Kierig, 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 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 1505 Violin-Major Beyond Requirements
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 1505 Violin-Major Beyond Requirements
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 1505 Violin-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 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: Remeniukova, 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: Remeniukova, Tanya
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: Remeniukova, 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: Lymbery, Christopher
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: Lymbery, Christopher
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: Lymbery, Christopher
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: Davis, Immanuel
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: Davis, Immanuel
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: Hara, Burt
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: Anderson, John Edward
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: Anderson, John Edward
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: Grivna, Brian A
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: Grivna, Brian A
Description: Student may contact the instructor or department for information.
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 1514 Bassoon-Major Beyond Requirements
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 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: Ullrich,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: Winslow,Herbert Eugene
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: Lemon,Caroline May
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: Baldwin,David B
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: Bodner,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: Ashworth,Thomas Jackson
Description: Student may contact the instructor or department for information.

MUSA 1518 Euphonium-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 32, 8 repeats allowed; prereq Audition, dept consent; Instructor: Werden,David Ray
Description: Student may contact the instructor or department for information.

MUSA 1518 Euphonium-Major Beyond Requirements
A-F only, 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 1519 Tuba-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 1519 Tuba-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prereq Audition, dept consent; Instructor: Werden,David Ray
Description: Student may contact the instructor or department for information.

MUSA 1519 Tuba-Major Beyond Requirements
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed; prereq Audition, dept consent; Instructor: Campbell,Steven 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: 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: 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: Yager,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.
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: Van, Jeffrey Wylie
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 1901 Piano--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Artyymiw, Lydia
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: Shockley, Rebecca P
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: Braginsky, Alexander
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: Billmeyer, Dean W
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: Weller, Lawrence E
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: Del Santo, Jean 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: Maurie, Glenda A
Description: Student may contact the instructor or department for information.

MUSA 1904 Voice--Transfer
A-F only, 2-4 credit(s), max credits 1, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Kierig, Barbara G
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: Zaro-Mullins, Wendy
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: De Haan, John
Description: Student may contact the instructor or department for information.

MUSA 1905 Violin--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MUSA 1905 Violin--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: O'Reilly, Sally P
Description: Student may contact the instructor or department for information.

MUSA 1905 Violin--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Fleezanis, Joria K
Description: Student may contact the instructor or department for information.

MUSA 1905 Violin--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MUSA 1905 Violin--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MUSA 1906 Viola--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Konkol, Korey Bernard
Description: Student may contact the instructor or department for information.

MUSA 1906 Viola--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Turner, Thomas
Description: Student may contact the instructor or department for information.

MUSA 1907 Cello--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MUSA 1908 Double Bass--Transfer
MUSA 1908 Double Bass--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Brown, Christopher Craig
Description: Student may contact the instructor or department for information.

MUSA 1909 Flute--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Clute, James Lewis
Description: Student may contact the instructor or department for information.

MUSA 1911 Oboe--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Reeve, Basil A
Description: Student may contact the instructor or department for information.

MUSA 1911 Oboe--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MUSA 1912 Clarinet--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Anderson, John Edward
Description: Student may contact the instructor or department for information.

MUSA 1912 Clarinet--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Harra, Burt T
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: Grivna, Angela J
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: Lloyd, Peter M
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, 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: Niemilowski, Norbert John
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: Ullery, Charles G
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: Winslow, Herbert Eugene
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 1915 French Horn--Transfer
A-F only, 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 1916 Trumpet--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Bordner, Gary Alan
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 1917 Trombone--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Ashworth, Thomas Jackson
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: Ashworth, Thomas Jackson
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: 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: Campbell, Steven C
Description: Student may contact the instructor or department for information.

MUSA 2021 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 2021 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 2021 Percussion--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Yeager, Steven Michael
Description: Student may contact the instructor or department for information.

MUSA 2021 Percussion--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Kogan, Peter
Description: Student may contact the instructor or department for information.

MUSA 2022 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.

MUSA 1923 Guitar--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed;
prereq Audition, dept consent;
Instructor: Flegel, James F
Description: Student may contact the instructor or department for information.

MUSA 1923 Guitar--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 2301 Piano-Performance 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 2301 Piano-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Artymiw, Lydia
Description: Student may contact the instructor or department for information.

MUSA 2301 Piano-Performance 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 2301 Piano-Performance 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 2302 Harpsichord-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, instr consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 2303 Organ-Performance 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 2304 Voice-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Weller, Lawrence E
Description: Student may contact the instructor or department for information.

MUSA 2304 Voice-Performance 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 2304 Voice-Performance Major
MUSA 2304 Voice-Performance 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 2304 Voice-Performance 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 2304 Voice-Performance 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 2305 Violin-Performance 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 2305 Violin-Performance 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 2305 Violin-Performance 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.

MUSA 2306 Viola-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Konkol, Korey Bernard
Description: Student may contact the instructor or department for information.

MUSA 2306 Viola-Performance Major
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 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: Lloyd, Peter M
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 2308 Double Bass--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 2309 Flute-Performance 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 2309 Flute-Performance 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 2311 Oboe--Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed;
prereq Audition, dept consent;
Instructor: Reeves, 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: 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: Grivna, Brian A
Description: Student may contact the instructor or department for information.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Prerequisite</th>
<th>Credit Hours</th>
<th>Repeats Allowed</th>
<th>Room Location</th>
<th>Description</th>
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<td>MUSA 2313</td>
<td>Saxophone-Performance Major</td>
<td>Ashworth, Thomas Jackson</td>
<td>Audition, dept consent</td>
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<td>MUSA 2314</td>
<td>Bassoon-Performance Major</td>
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<td>Winslow, Herbert Eugene</td>
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<td>Miller Jr, John W</td>
<td>Audition, dept consent</td>
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<td>MUSA 2317</td>
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<td>MUSA 2318</td>
<td>Euphonium—Performance Major</td>
<td>Werden, David Ray</td>
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<td>MUSA 2319</td>
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<td>Campbell, Steven C</td>
<td>Audition, dept consent</td>
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<td>MUSA 2321</td>
<td>Percussion—Performance Major</td>
<td>Hey, Philip C</td>
<td>Audition, dept consent</td>
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<td>Student may contact the instructor or department for information.</td>
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<td>MUSA 2321</td>
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<td>Meza, Fernando A.</td>
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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 2323 Guitar-Performance Major  
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 2323 Guitar-Performance 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 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Osterman,Jennifer J  
Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Hila,Hiyas Alejo  
Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Park,Woo Bin  
Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Fishman,Loren Boris  
Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Veiler,Marina  
Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Knoepfel,Justin C  
Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: 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 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Noonan,Noelle  
Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Schoenecker,Ann Elise  
Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: 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 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Kienzle,Kathy  
Description: Student may contact the instructor or department for information.

MUSA 3101 Piano: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Fiegel,James F  
Description: Student may contact the instructor or department for information.

MUSA 3102 Harpsichord: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Billmeyer,Dean W  
Description: Student may contact the instructor or department for information.
MUSA 3106 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: McNamara, Erica Lynne  
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: McKeighan, Caitlin Patricia  
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: Chung, Min-jung  
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: Dromgold, Allison Frances  
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: Wolf, Jenna M  
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: Anderson, Matthew Douglas  
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: Everist, Evan P  
Description: Student may contact the instructor or department for information.

MUSA 3117 Trombone: Elective  
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;  
prereq dept consent;  
Instructor: Ball, David Richard  
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: Tranter, John Harrington  
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: Povolny, John Gregory  
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: Jameson, Aaron L  
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Credit Hours</th>
<th>Repeat Limit</th>
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<tbody>
<tr>
<td>MUSA 3304 Voice--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: Zaro-Mullins, Wendy</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 3304 Voice--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: De Haan, John</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 3305 Violin--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: Kim, Young-Nam</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 3305 Violin--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: O'Reilly, Sally P</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 3305 Violin--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: Bjork, Mark P</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 3306 Viola--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: Konkol, Korey Bernard</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 3306 Viola--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: Turner, Thomas</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 3307 Cello--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: Remenikova, Tanya</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 3308 Double Bass--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: Lloyd, Peter M</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 3308 Double Bass--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 repeats allowed</td>
<td>prereq Audition, dept consent; Instructor: Brown, Christopher Craig</td>
<td>Student may contact the instructor or department for information.</td>
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</table>
MUSA 3306 Double Bass--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 3309 Flute--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 3311 Oboe--Major
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 3312 Clarinet--Major
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 3313 Saxophone--Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Grivna, Brian A
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 3315 French Horn--Major
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Winslow, Herbert Eugene
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: Bordner, Gary Alan
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: 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: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 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 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 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 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: Campbell,Steven 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: 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: Yeager,Steven Michael
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 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: Maurice,Glenda A
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: Werden,David Ray
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: Shockley,Rebecca P
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: Judson,Meredith K
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: Hey,Philip C.
Description: Student may contact the instructor or department for information.

MUSA 5103 Organ: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed; 
prereq dept consent; 
Instructor: Billmeyer,Dean W
Description: Student may contact the instructor or department for information.

MUSA 5104 Voice: 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 5104 Voice: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed; 
prereq dept consent; 
Instructor: Del Santo,Jean Marie
Description: Student may contact the instructor or department for information.

MUSA 5104 Voice: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed; 
prereq dept consent; 
Instructor: Werden,David Ray
Description: Student may contact the instructor or department for information.

MUSA 5104 Voice: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed; 
prereq dept consent; 
Instructor: Kierig,Barbara G
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 Name</th>
<th>Prerequisite</th>
<th>Section</th>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>MUSA 5104</td>
<td>Voice: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
<td></td>
<td>Zaro-Mullins, Wendy</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5104</td>
<td>Voice: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>De Haan, John</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5105</td>
<td>Violin: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
<td></td>
<td>Kim, Young-Nam</td>
<td>Student may contact the instructor or department for information.</td>
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<td>MUSA 5105</td>
<td>Violin: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>Fleezanis, Joria K</td>
<td>Student may contact the instructor or department for information.</td>
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<td>MUSA 5105</td>
<td>Violin: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>O'Reilly, Sally P</td>
<td>Student may contact the instructor or department for information.</td>
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<td>MUSA 5105</td>
<td>Violin: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>Miller Jr, John W</td>
<td>Student may contact the instructor or department for information.</td>
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<td>MUSA 5105</td>
<td>Violin: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>Rousseau, Eugene E</td>
<td>Student may contact the instructor or department for information.</td>
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<td>MUSA 5106</td>
<td>Viola: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>Remenikova, Tanya</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5107</td>
<td>Cello: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>Lloyd, Peter M</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5108</td>
<td>Double Bass: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
<td></td>
<td>Brown, Christopher Craig</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5108</td>
<td>Double Bass: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>MUSA 5109</td>
<td>Flute: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
<td></td>
<td>Clute, James Lewis</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5111</td>
<td>Oboe: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
<td></td>
<td>Reeve, Basil</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5111</td>
<td>Oboe: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>Snow, John D</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>MUSA 5112</td>
<td>Clarinet: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>Grivna, Brian A</td>
<td>Student may contact the instructor or department for information.</td>
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<td>MUSA 5113</td>
<td>Saxophone: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>MUSA 5114</td>
<td>Bassoon: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>MUSA 5114</td>
<td>Bassoon: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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<td>MUSA 5115</td>
<td>French Horn: Elective</td>
<td>A-F only, 2 credit(s), max credits 8, 4 repeats allowed;</td>
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</table>
MUSA 5115 French Horn: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent ;
Instructor: Werden, David Ray
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: Jameson, Aaron L
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: Ashworth, Thomas Jackson
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 5119 Tuba: Elective
A-F only, 2 credit(s), max credits 8, 4 repeats allowed;
prereq dept consent ;
Instructor: Werden, David Ray
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;
Instructor: Weller, Lawrence E
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;
Instructor: Shockley, Rebecca P
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;
Instructor: Braginsky, Alexander
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;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 5402 Harpsichord--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 5403 Organ--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 5404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Weller, Lawrence E
Description: Student may contact the instructor or department for information.

MUSA 5404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed;
prereq Audition, dept consent;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.
MUSA 5404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Maurice, Gienda A 
Description: Student may contact the instructor or department for information.

MUSA 5405 Violin--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Kierig, Barbara G 
Description: Student may contact the instructor or department for information.

MUSA 5404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Zaro, Mullins, Wendy 
Description: Student may contact the instructor or department for information.

MUSA 5404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: De Haan, John 
Description: Student may contact the instructor or department for information.

MUSA 5404 Voice--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Noonan, Noelle 
Description: Student may contact the instructor or department for information.

MUSA 5405 Violin--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Kim, Young-Nam 
Description: Student may contact the instructor or department for information.

MUSA 5405 Violin--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Fleezanis, Joria K 
Description: Student may contact the instructor or department for information.

MUSA 5405 Violin--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: O'Reilly, Sally P 
Description: Student may contact the instructor or department for information.

MUSA 5405 Violin--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Bjork, Mark P 
Description: Student may contact the instructor or department for information.

MUSA 5406 Viola--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Konkol, Korey Bernard 
Description: Student may contact the instructor or department for information.

MUSA 5406 Viola--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Turner, Thomas 
Description: Student may contact the instructor or department for information.

MUSA 5407 Cello--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Remenikova, Tanya 
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: Lloyd, Peter M 
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: 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: Reeves, 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: Hara, Burt T 
Description: Student may contact the instructor or department for information.

MUSA 5413 Saxophone--Secondary
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 5415 French Horn--Secondary
2-4 credit(s), max credits 4, 1 repeat allowed; prereq 
Audition, dept consent; 
Instructor: Winslow,Herbert Eugene 
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: Lemens,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: Gastl,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: Ashworth,Thomas Jackson 
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; 
Instructor: Werden,David Ray 
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; 
Instructor: Hey,Philip C 
Description: Student may contact the instructor or department for information.

MUSA 5421 Percussion--Secondary
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 5421 Percussion--Secondary
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 5421 Percussion--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 5423 Guitar--Secondary
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 5423 Guitar--Secondary
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 8301 Piano--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Shaw,Paul Magnus 
Description: Student may contact the instructor or department for information.

MUSA 8301 Piano--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed; 
prereq Audition, dept consent; 
Instructor: Artymiw,Lydia 
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 8301 Piano--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed; prerequisite Audition, dept consent;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MUSA 8301 Piano--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed; prerequisite Audition, dept consent;
Instructor: Shockley, Rebecca P
Description: Student may contact the instructor or department for information.

MUSA 8302 Harpsichord--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed; prerequisite Audition, dept consent;
Instructor: Braginsky, Alexander
Description: Student may contact the instructor or department for information.

MUSA 8302 Organ--Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed; prerequisite Audition, dept consent;
Instructor: Billmeyer, Dean W
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; prerequisite Audition, dept consent;
Instructor: Weller, Lawrence E
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; prerequisite Audition, dept consent;
Instructor: Del Santo, Jean Marie
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; prerequisite Audition, dept consent;
Instructor: Maurice, Glenda A
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; prerequisite Audition, dept consent;
Instructor: Kierig, Barbara G
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; prerequisite Audition, dept consent;
Instructor: Zaro-Mullins, Wendy
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; prerequisite Audition, dept consent;
Instructor: De Haan, John
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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite Audition, dept consent;
Instructor: Remenikova, Tanya
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; prerequisite 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; prerequisite Audition, dept consent;
Instructor: Lloyd, Peter M
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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite Audition, dept consent;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 8311</td>
<td>Oboe--Major</td>
<td>Nielubowski, Norbert John</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 8312</td>
<td>Clarinet--Major</td>
<td>Miller Jr, John Edward</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 8313</td>
<td>Saxophone--Major</td>
<td>Rousseau, Eugene E</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 8314</td>
<td>Bassoon--Major</td>
<td>Ullery, Charles G</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 8315</td>
<td>French Horn--Major</td>
<td>Winslow, Herbert Eugene</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 8316</td>
<td>Trumpet--Major</td>
<td>Baldwin, David B</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 8317</td>
<td>Trombone--Major</td>
<td>Ashworth, Thomas Jackson</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 8318</td>
<td>Euphonium--Major</td>
<td>Ashworth, Thomas Jackson</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 8319</td>
<td>Tuba--Major</td>
<td>Tranter, John Harrington</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>
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 8319 Tuba—Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Campbell, Steven C
Description: Student may contact the instructor or department for information.

MUSA 8321 Percussion—Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.

MUSA 8321 Percussion—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 Percussion—Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Kogan, Peter
Description: Student may contact the instructor or department for information.

MUSA 8322 Harp—Major
A-F only, 2-4 credit(s), max credits 48, 24 repeats allowed;
prereq Audition, dept consent;
Instructor: Kiernzie, Kathy
Description: Student may contact the instructor or department for information.

MUSA 8323 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 8324 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.

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: Artymiw, 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: Billmeyer, Dean W
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: Weller, Lawrence E
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: Del Santo, Jean Marie
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: Maurice, Glenda A
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: Kierig, Barbara G
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: Zaro-Mullins, Wendy
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: De Haan, John
Description: Student may contact the instructor or department for information.

MUSA 8505 Violin: Beyond Requirement
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 8505</td>
<td>Violin: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Kim, Young-Nam</td>
</tr>
<tr>
<td>MUSA 8514</td>
<td>Bassoon: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Nielubowski, Norbert John</td>
</tr>
<tr>
<td>MUSA 8509</td>
<td>Flute: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Bogorad, Julia A</td>
</tr>
<tr>
<td>MUSA 8515</td>
<td>French horn: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Winslow, Herbert Eugene</td>
</tr>
<tr>
<td>MUSA 8506</td>
<td>Viola: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Remenikova, Tanya</td>
</tr>
<tr>
<td>MUSA 8512</td>
<td>Clarinet: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Grivna, Brian A</td>
</tr>
<tr>
<td>MUSA 8507</td>
<td>Cello: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Brown, Christopher Craig</td>
</tr>
<tr>
<td>MUSA 8513</td>
<td>Saxophone: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Rousseau, Eugene E</td>
</tr>
<tr>
<td>MUSA 8508</td>
<td>Double Bass: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Clute, James Lewis</td>
</tr>
<tr>
<td>MUSA 8514</td>
<td>Bassoon: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Miller Jr, John W</td>
</tr>
<tr>
<td>MUSA 8515</td>
<td>French horn: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Ullery, Charles G</td>
</tr>
<tr>
<td>MUSA 8511</td>
<td>Oboe: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Reeves, Basil</td>
</tr>
<tr>
<td>MUSA 8512</td>
<td>Clarinet: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Anderson, John Edward</td>
</tr>
<tr>
<td>MUSA 8513</td>
<td>Saxophone: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Hara, Burt T</td>
</tr>
<tr>
<td>MUSA 8511</td>
<td>Oboe: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Snow, John D</td>
</tr>
<tr>
<td>MUSA 8509</td>
<td>Flute: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Davis, Immanuel</td>
</tr>
<tr>
<td>MUSA 8506</td>
<td>Viola: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: O'Reilly, Sally P</td>
</tr>
<tr>
<td>MUSA 8507</td>
<td>Cello: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Konkol, Korye Bernard</td>
</tr>
<tr>
<td>MUSA 8514</td>
<td>Bassoon: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Miller Jr, John W</td>
</tr>
<tr>
<td>MUSA 8515</td>
<td>French horn: Beyond Requirement A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent; Instructor: Winslow, Herbert Eugene</td>
</tr>
</tbody>
</table>
for information.

MUSA 8515 French horn: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
instructor consent;  
Instructor: Lemen, Caroline May  
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;  
instructor consent;  
Instructor: Tranter, John Harrington  
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;  
instructor consent;  
Instructor: Baldwin, David B  
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;  
instructor 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;  
instructor consent;  
Instructor: Tranter, John Harrington  
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;  
instructor 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;  
instructor consent;  
Instructor: Tranter, 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;  
instructor 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;  
instructor consent;  
Instructor: Werden, David Ray  
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;  
instructor consent;  
Instructor: Campbell, Steven C  
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;  
instructor consent;  
Instructor: Hey, Philip C  
Description: Student may contact the instructor or department for information.

MUSA 8521 Percussion: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
instructor consent;  
Instructor: Meza, Fernando A.  
Description: Student may contact the instructor or department for information.

MUSA 8521 Percussion: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
instructor consent;  
Instructor: Yeager, Steven Michael  
Description: Student may contact the instructor or department for information.

MUSA 8521 Percussion: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
instructor consent;  
Instructor: Kogan, Peter  
Description: Student may contact the instructor or department for information.

MUSA 8522 Harp: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
instructor consent;  
Instructor: Kienzle, Kathy  
Description: Student may contact the instructor or department for information.

MUSA 8523 Guitar: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
instructor consent;  
Instructor: Van, Jeffrey Wylie  
Description: Student may contact the instructor or department for information.

MUSA 8524 Accompanying/Coaching: Beyond Requirement  
A-F only, 2-4 credit(s), max credits 8, 4 repeats allowed;  
instructor consent;  
Instructor: Lovelace, Timothy  
Description: Student may contact the instructor or department for information.

Music Education  
100 Ferguson Hall

MUED 1201 Introduction to Music Education  
A-F only, 1 credit(s);  
instructor consent;  
Instructor: Hamann, Keitha Lucas  
Description: Student may contact the instructor or department for information.

MUED 1202 Experiences in Music Teaching and Learning  
A-F only, 2 credit(s); prereq 1201 or instructor consent;  
instructor consent;  
Instructor: Parker, Nancy A.
MUED 1801 Introduction to Music Therapy
A-F only, 2 credit(s);
Description: Student may contact the instructor or department for information.
Instructor: Houck, Ann Whitehead

MUED 3502 String Techniques and Teaching
A-F only, 2 credit(s), max credits 1, 1 repeat allowed;
Description: Student may contact the instructor or department for information.
Instructor: Kelly, Patricia M

MUED 3503 Woodwind Techniques and Teaching
A-F only, 2 credit(s); prereq Music ed or music therapy major or instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Kern, Stacy J

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

MUED 3530 Student Teaching in Classroom Music
A-F only, 4-8 credit(s), max credits 8, 1 repeat allowed;
Description: Student may contact the instructor or department for information.
Instructor: Addo, PhD, Akosua O

MUED 3540 Student Teaching in Vocal Music
A-F only, 4-8 credit(s), max credits 8, 1 repeat allowed;
Description: Student may contact the instructor or department for information.
Instructor: Hamann, Keitha Lucas

MUED 3550 Student Teaching in Instrumental Music
A-F only, 4-8 credit(s), max credits 8, 1 repeat allowed;
Description: Student may contact the instructor or department for information.
Instructor: Pohland, Glenn E

MUED 5521 African Performing Arts in Education
A-F only, 3 credit(s); prereq Grad student in [music or other arts or education] or instr consent;
Description: Student may contact the instructor or department for information.
Instructor: Addo, PhD, Akosua O

MUED 5650 Student Teaching Seminar
A-F only, 2 credit(s); prereq At least C- in all required [music, music education, professional education] courses;
Description: Credit will not be granted if the student has already completed MuEd 3650;
Instructor: Skaar, Kathrina Elizabeth

MUED 5750 Topics in Music Education: Developing Multimedia for the Web
A-F only, 3 credit(s), max credits 16, 4 repeats allowed;
Description: Student may contact the instructor or department for information.
Instructor: Lipscomb, Scott D.

MUED 5804 Applications of Music Therapy I: Music Therapy for Children in Rehabilitative Settings
A-F only, 4 credit(s); prereq Music therapy major, instr consent Credit will not be granted if the student has already completed MuEd 3804;
Instructor: Silverman, Michael J

MUED 5806 Preparing for a Music Therapy Career
A-F only, 4 credit(s); prereq Music therapy major or instr consent Credit will not be granted if the student has already completed MuEd 3806;
Instructor: Houck, Ann Whitehead

MUED 5855 Music Therapy Internship
S-N only, 6 credit(s); prereq Music therapy major, instr consent Credit will not be granted if the student has already completed MuEd 3855;
Instructor: Silverman, Michael J

MUED 8112 Introduction to Research Methods and Design in Arts Education
A-F only, 3 credit(s); prereq Grad student in [music or music education], dept consent;
Instructor: Lipscomb, Scott D.

MUED 8280 Seminar: Current Trends in Music Education: Making History
A-F only, 3 credit(s), max credits 30, 10 repeats allowed;
Description: Student may contact the instructor or department for information.
Instructor: Hamann, Keitha Lucas

MUED 8900 Seminar: Music Education Doctoral Seminar
A-F only, 1 credit(s), max credits 8, 8 repeats allowed;
Description: Student may contact the instructor or department for information.
Instructor: Lipscomb, Scott D.

MSE 400 Nanoparticle Science and Engineering
125 Mechanical Engineering

This information is accurate as of 9/15/2008 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 2008

NPSE 8002 Nanoparticle Science and Engineering Laboratory
A-F only, 3 credit(s); prereq 8001, [IT grad student or instr consent];
Instructor: Kortshagen, Uwe Richard
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: Fenwick, William B
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: Fenwick, William B
Description: Student may contact the instructor or department for information.

NAV 2201 Ship Systems I: Naval Engineering
A-F only, 3 credit(s);
Instructor: Schulze, Logan K
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: Fenwick, William B
Description: Student may contact the instructor or department for information.

NAV 3302 Navigation II: Seamanship and Ship Operations
A-F only, 3 credit(s); prereq 3301;
Instructor: Gonzalez, Luis Angel
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: Fenwick, William B
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/Public Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Nestor, Duane
Description: Student may contact the instructor or department for information.

Neuroscience

6-145 Jackson Hall

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 5661 Behavioral Neuroscience
A-F only, 3 credit(s); prereq Grad NSc major or grad NSc minor or instr consent;
Instructor: Mesce, Karen A
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: 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: 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: Kofuji, Paulo
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: 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, LiLian
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;
Instructor: Ghose, Geoffrey M
Description: This is the second of the introductory neuroscience courses. It introduces fundamental concepts in systems and behavioral neuroscience with emphasis on the neural circuits underlying perception and sensorimotor integration. Lectures will examine the neural basis of specific behaviors arising from the oculomotor, visual and auditory systems. Topics include: retinal processing, functional organization in the cerebral cortex, and neural circuit development. Students must learn to read scientific papers, and to understand the main ideas well enough to synthesize them and communicate them both orally and in writing. The course is writing intensive: exams are in essay format, and a 10-15 page term paper are required. The course is required for students majoring in neuroscience but is open to all students with the required prerequisites. The course consists of two hours of lecture and one hour of discussion per week and is taught by Professors Ghose, Miller, Masino, and Soechting.
Style: 67% Lecture, 33% Discussion.
Grading: 25% mid exam, 25% final exam, 15% reports/papers, 5% in-class participation, 5% class participation, 25% other evaluation. There are 3 non-cumulative exams (each worth 25%).
Exam Format: short answer/essay

NSCI 4167 Neuroscience in the Community
A-F only, 1-3 credit(s); prereq instr consent;
Instructor: Dubinsky, Janet M
Description: Students will be responsible for developing an experiment or inquiry-based activity to illustrate a basic neuroscience concept for a middle school science classroom. Students will be paired with a middle school science teacher who has become familiar with neuroscience through the BrainU program offered through the Department of Neuroscience. Over the course of the semester students will observe and assist in the middle school classroom in the implementation of already developed neuroscience activities. Students will choose a basic concept in an area of neuroscience in which they will develop an expertise and make an oral presentation. Students will then design and implement a new classroom activity to teach concepts in that area of neuroscience to middle school learners. By partnering with a middle school teacher and assisting in his/her classroom, the student participates in a service learning experience. Credit hours are proportional to the number of hours spent in the middle school classroom, 1 credit for every 50 hr. Weekly meetings with the instructor, journaling, and readings are required for all credit levels.
Style: Field work in service learning.
Grading: 30% in-class presentation, 30% classroom activities and interactions; 25% teach evaluation of classroom activities and interactions; 15% journal

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: Engeland, William C
Description: Student may contact the instructor or department for information.

Nursing

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 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 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); prereq Nursing or instr consent;
NURS 4324 Transcultural Nursing and Global Health
A-F only, 3 credit(s); prereq Nursing student or instr consent; Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspect Theme; Instructor: Wachdorf,Cecilia M Description: Student may contact the instructor or department for information.

NURS 4326 Nursing Care of Older Adults
A-F only, 3 credit(s); prereq 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: de Ruiter,Hans-Peter Description: Student may contact the instructor or department for information.

NURS 4403 Nursing Care of Childbearing Families
A-F only, 4 credit(s); prereq 4201, 4203; Instructor: Rossi, Mary A Description: Student may contact the instructor or department for information.

NURS 4408 Nursing Care of Infants, Children, and Adolescents
A-F only, 4 credit(s); prereq 4201, 4203; Instructor: Fjone,Andra Lynn Description: Student may contact the instructor or department for information.

NURS 4500W Nursing Leadership and Health Care Systems
A-F only, 4 credit(s); prereq Nursing student or instr consent; Meets CLE req of Writing Intensive; Instructor: Herrick,Linda Marie Description: Student may contact the instructor or department for information.

NURS 4500W Nursing Leadership and Health Care Systems
A-F only, 4 credit(s); prereq Nursing student or instr consent; Meets CLE req of Writing Intensive; Instructor: Disch,Joanne M Description: Student may contact the instructor or department for information.

NURS 4502 Clinical Immersion
A-F only, 6 credit(s); prereq 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); prereq Concurrent registration is required (or allowed) in 4500; Instructor: Herrick,Linda Marie Description: Student may contact the instructor or department for information.

NURS 4800 Nursing Topics
1 credit(s), max credits 16, 1 repeat allowed; prereq instr consent; Instructor: Flaten,Carol 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); prereq 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); prereq 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); prereq Grad student or sr Nursing Honors student or upper div Honors or instr 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: Westra,Bonnie L Description: Student may contact the instructor or department for information.

NURS 5183 Scholarly Leadership
S-N only, 1 credit(s); prereq Advanced doctoral nursing student, instr 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); prereq Nursing grad student or professional master of nursing [MN] student; Instructor: Sandve,Marlys 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: Benbenek,Mary Mescher 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: Bata Jones,Bonnie Rose 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 5800 Nursing Topics: Foundations of Infection Control
3 credit(s), max credits 8, 4 repeats allowed; prereq instr consent;
Instructor: O'Boyle, Carol
Description: Student may contact the instructor or department for information.

NURS 5800 Nursing Topics
1-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent
Instructor: Wachdorf, Cecilia M
Description: Student may contact the instructor or department for information.

NURS 5800 Nursing Topics
1-4 credit(s), max credits 8, 4 repeats allowed; prereq instr consent
Instructor: Cohen, Bradley A
Description: Student may contact the instructor or department for information.

NURS 5830 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 5830 Advanced Clinical Nursing
1 credit(s), max credits 6, 1 repeat allowed; prereq Grad nursing major, instr consent
Instructor: Avery, Melissa D
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: Leonard, Barbara J
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:
Style: 9% Student Presentation, 1% Guest Speakers.

NURS 6200 Science of Nursing Intervention
A-F only, 3 credit(s); prereq Admission to DNP Program;
Instructor: Mueller, Christine Ann
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: White, Kathryn W
Description: Student may contact the instructor or department for information.

NURS 7800 Advanced Topics in Professional Nursing: Informatics in Global Health
1 credit(s), max credits 36, 6 repeats allowed; prereq instr consent;
Instructor: Westra, Bonnie L.
Description: Student may contact the instructor or department for information.

NURS 7800 Advanced Topics in Professional Nursing: Informatics in Global Health
1 credit(s), max credits 36, 6 repeats allowed; prereq instr consent;
Instructor: Olson Keller, Linda
Description: Student may contact the instructor or department for information.

NURS 7800 Advanced Topics in Professional Nursing: Geothermal Energy and Environmental Hot Spots
1 credit(s), max credits 36, 6 repeats allowed; prereq instr consent;
Instructor: Olson Keller, Linda
Description: Student may contact the instructor or department for information.

NURS 7800 Advanced Topics in Professional Nursing: Globalization and Health: Challenges, Perspectives
1 credit(s), max credits 36, 6 repeats allowed; prereq instr consent;
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 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 8140 Moral and Ethical Positions in Nursing
3 credit(s); prereq Grad nurs major or instr consent;
Instructor: Liaschenko, Joan
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, Madeline Jane
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 8177 Advanced Nursing Research Practicum
NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Duckett,Laura J  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Lindeke PhD,Linda L  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Edwardson,Sandra R  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Westra,Bonnie L.  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Chlan,Linda Lee  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Fagerlund,Kathleen A  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Sieving,Renee Evangeline  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Bliss PhD,Donna Zimmaro  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Avery,Melissa D  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Bearinger,Linda Holm  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Treat-Jacobson PhD,Diane Jeanette  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Rowan,Mary M.  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Henly,Susan J S  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Krichbaum,Kathleen Elaine  
Description: Student may contact the instructor or department for information. 

NURS 8177 Advanced Nursing Research Practicum  
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent; 
Instructor: Garwick,Ann Elizabe  
Description: Student may contact the instructor or department for information.
NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Kaas, Merrie Jean
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Gross, Cynthia R
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Peden-McAlpine, Cynthia Jeanne
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Wyman, Jean Frances
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Mueller, Christine Ann
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Disch, Joanne M
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Lindquist, Ruth Ann
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Kerr, Madeleine June
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Moss JD, PhD, Margaret P
Description: Student may contact the instructor or department for information.

NURS 8177 Advanced Nursing Research Practicum
S-N only, 2 credit(s); prereq [8181 or concurrent enrollment in 8181], PhD nursing student, instr consent, adviser consent;
Instructor: Looman PhD, Wendy Sue
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: Wyman, Jean Frances
Description: Student may contact the instructor or department for information.

NURS 8182 Policy Implications of Nursing Research
S-N only, 1 credit(s); prereq Nursing doctoral student or instr consent;
Instructor: Moss JD, PhD, Margaret P
Description: Student may contact the instructor or department for information.

NURS 8190 Critical Review in Health Research
A-F only, 2 credit(s); prereq Advanced statistics course, instr consent;
Instructor: Chlan, Linda Lee
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent;
Instructor: Leonard, Barbara J
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent;
Instructor: Halon PhD, Linda Luciente
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent;
Instructor: Henly, Susanne J S
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent;
Instructor: Edwardson, Sandra R
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
3 credit(s), max credits 6; prereq instr consent;
Instructor: Westra, Bonnie L
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent;
Instructor: Lindeke PhD, Linda L
Description: Student may contact the instructor or department for information.

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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 9/15/2008 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 2008

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Kirchbaum, Kathleen Elaine
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Duckett, Laura J
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Juve, Catherine
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Garwick, Ann Elizabeth
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Avery, Melissa D
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Bearinger, Linda Holm
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Treat-Jacobson PhD, Diane Jeanette
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Chian, Linda Lee
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Gaugier PhD, Joseph E
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Fagerlund, Kathleen A
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Bliss PhD, Donna Zimmaro
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Kaas, Merrie Jean
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Gross, Cynthia R
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Peden-McAlpine, Cynthia Jeanne
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Wyman, Jean Frances
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Disch, Joanne M
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Hansen, Helen Elizabeth
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Kerr, Madeleine June
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Moss JD, PhD, Margaret P
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Liaschenko, Joan
Description: Student may contact the instructor or department for information.

NURS 8193 Special Topics in Nursing Research
1-6 credit(s), max credits 6; prereq instr consent
Instructor: Peden-McAlpine, Cynthia Jeanne
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6; 3 repeats allowed; prerequisite(s) [8100 or concurrent enrollment 8180], [8170 or concurrent enrollment 8170], instr consent
Instructor: Leonard, Barbara J
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6; 3 repeats allowed; prerequisite(s) [8100 or concurrent enrollment 8180], [8170 or concurrent enrollment 8170], instr consent
Instructor: Halcott, Linda Luciente
Description: Student may contact the instructor or department for information.
University of Minnesota - Course Guide for Twin Cities Campus  
Spring 2008

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: Lindquist, Ruth Ann  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: Henly, Susan J S  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: Edwardsson, Sandra R  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: Lichtblau PhD, Leonard  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: O'Boyle, Carol  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: O'Boyle, Carol  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: Lichtblau PhD, Leonard  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: Lichtblau PhD, Leonard  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: Lichtblau PhD, Leonard  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: Lichtblau PhD, Leonard  
Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B  
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed;  
prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent;  
Instructor: Lichtblau PhD, Leonard  
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Treat-Jacobson PhD,Diane Jeanette Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Chi, Linda Lee Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Gaugler PhD, Joseph E Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Fagerlund, Kathleen A Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Sieving, Renee Evangeline Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Bliss PhD, Donna Zimmaro Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Kubik, Martha Young Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Gross, Cynthia R Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Peden-McAlpine, Cynthia Jeanne Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Wyman, Jean Frances Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Mueller, Christine Ann Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Disch, Joanne M Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Hansen, Helen Elizabeth Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Kerr, Madeleine June Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Moss JD, PhD, Margaret P Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Li, Katherine Jean Description: Student may contact the instructor or department for information.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 repeats allowed; prereq [8100 or concurrent enrollment 8100], [8170 or concurrent enrollment 8170], instr consent; Instructor: Hansen, Helen Elizabeth Description: Student may contact the instructor or department for information.

NURS 8241 Health Care Leadership for a Changing World
2 credit(s), max credits 3, 1 repeat allowed; prereq AHC grad student or instr consent; Instructor: Hansen, Helen Elizabeth Description: Student may contact the instructor or department for information.

NURS 8242 Population Focused Health Care Delivery Systems
2 credit(s); prereq Grad nurs student or instr consent; Instructor: Herrick, Linda Marie Description: Student may contact the instructor or department for information.

NURS 8314 Intervention Models for Adults/Elders with Chronic Health Conditions
A-F only, 3-4 credit(s), max credits 4, 1 repeat allowed; prereq 5222, 5800, 8100, 8140, 8170, instr consent; Instructor: Zaccagnini, Mary E Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 8316 Implementing Advanced Practice Roles in Adult Nursing
A-F only, 4 credit(s); prereq 5222, 5800, 8100, 8140, 8170, 8314, 8315;
Instructor: Zaccagnini,Mary E
Description: Student may contact the instructor or department for information.

NURS 8321 Advanced Nursing Care of the Elderly I
A-F only, 4 credit(s), max credits 6, 1 repeat allowed; prereq Grad student in nursing, instr consent;
Instructor: Pung,Laurie Jean
Description: Student may contact the instructor or department for information.

NURS 8323 Advanced Nursing Care of the Elderly (II): For Nurse Practitioners
A-F only, 5-6 credit(s), max credits 6, 1 repeat allowed; prereq 8322, Bxxx advanced gerontological nurs course, grad nurs major, instr consent;
Instructor: Schurrer-Erickson,Karin
Description: Student may contact the instructor or department for information.

NURS 8341 Advanced Practice Psychiatric/Mental Health Nursing in Groups and Community
7 credit(s); prereq 5340, 8340, concurrent enrollment in 8240, concurrent enrollment in 8242;
Instructor: Trezona,Peggy
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: Leonard,Barbara 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: Halcon PhD,Linda Luciente
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: Lindquist,Ruth Ann
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: Henly,Susan J S
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: Edwardson,Sandra R
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: Lindeke PhD,Linda L
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: Krichbaum,Kathleen Elaine
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: Ducket,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: Juve,Catherine
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: Ganwick,Ann Elizabe
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: Rowan,Mary M.
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: Bearnger,Linda Holm
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: Chlan,Linda Lee
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: Bliss PhD,Donna Zimm
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: Kaas,Merrie Jean
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: Gross,Cynthia R
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: Peden-McAlpine, Cynthia Jeanne
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: Wyman, Jean Frances
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: Disch, Joanne M
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: Hansen, Helen 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: Kerr, Madeleine June
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: Moss JD, PhD, Margaret P
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: Liaschenko, Joan
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Rowan, Mary M.
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Wyman, Christine Ann
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Edwardson, Sandra R
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Westra, Bonnie L.
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Liaschenko, Joan
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Juve, Catherine
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Garwick, Ann Elizabeth
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Rowan, Mary M.
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Lindquist, Ruth Ann
Description: Student may contact the instructor or department for information.
NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Bearinger,Linda Holm
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Treat-Jacobson PhD,Diane Jeanette
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Chlan,Linda Lee
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Bliss PhD,Donna Zimmaro
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Fagerlund,Kathleen A
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Nygaard,Georgia Gayle
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Liaschenko,Joan
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Hansen,Helen Elizabeth
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Disch,Joanne M
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Disch,Joanne M
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Treat-Jacobson PhD,Diane Jeanette
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Blazen,Bonnie Rose
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Liaschenko,Joan
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Nygaard,Georgia Gayle
Description: Student may contact the instructor or department for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 repeat allowed; prereq Grad nurs major, instr consent;
Instructor: Liaschenko,Joan
Description: Student may contact the instructor or department for information.

NURS 8402 Primary Care: Assessment and Management of Health for Advanced Practice Nurses
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq 5200, 5222, 5224, 6242;
Instructor: Nyagaard,Georgia Gayle
Description: Student may contact the instructor or department for information.

NURS 8403 Primary Care Practice for Family Nurse Practitioners: Assessment and Management of Health S-N only, 4 credit(s); prereq 5200, 5222, 8402;
Instructor: Bata Jones,Bonnie Rose
Description: Student may contact the instructor or department for information.

NURS 8405 Family Practice Practicum II
A-F only, 2 credit(s), max credits 4; prereq 5200, 5222, 5224, 8402, 8601;
Instructor: Schadewald,Diane Marie
Description: Student may contact the instructor or department for information.
### NURS 8450 Primary Care: Health Assessment and Care of Well Children
- 3 credit(s); prerequisite 5200, 5222, concurrent enrollment in 8451;
- Instructor: Poe, Christine R
- Description: Student may contact the instructor or department for information.

### NURS 8451 Primary Care Practicum: Health Assessment and Care of Well Children
- A-F only, 2-3 credit(s), max credits 3, 1 repeat allowed; prerequisite 5200, concurrent enrollment 8450, instructor consent;
- Instructor: Poe, Christine R
- Description: Student may contact the instructor or department for information.

### NURS 8456 Health Care for Children and Youth with Special Health Care Needs Practicum
- 3 credit(s); prerequisite 8454, 8455, instructor consent;
- Instructor: Looman PhD, Wendy Sue
- Description: Student may contact the instructor or department for information.

### NURS 8457 Assessment and Intervention Models in Families of Children with Special Health Care Needs
- 4 credit(s); prerequisite 8124 or equivalent, 8100, 8456, instructor consent;
- Instructor: Looman PhD, Wendy Sue
- Description: Student may contact the instructor or department for information.

### NURS 8500 Reproductive Health Care for Women Practicum for the Family Nurse Practitioner
- S-N only, 2 credit(s); prerequisite concurrent registration with NURS 8501, 8405;
- Instructor: Schadewald, Diane Marie
- Description: Student may contact the instructor or department for information.

### NURS 8501 Reproductive Health Care for Women
- 3-8 credit(s), max credits 8, 1 repeat allowed; prerequisite 5200, instructor consent;
- Instructor: Plumbo, Margaret Anne
- Description: Student may contact the instructor or department for information.

### NURS 8502 Reproductive Health Care for Women at Risk
- 2-6 credit(s), max credits 6, 1 repeat allowed; prerequisite 8503 or 8520;
- Instructor: Wachdorf, Cecilia M
- Description: Student may contact the instructor or department for information.

### NURS 8601 Interventions for Health of Populations
- 3 credit(s); prerequisite 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); prerequisite 8242, 8601;
- Instructor: Findorff, Mary Jocelyn
- Description: Student may contact the instructor or department for information.

### NURS 8721 The Nurse Educator in Higher Education
- 4 credit(s); prerequisite [8241, 8242, 8720, educational measurement course, grad nursing major] or instructor consent;
- Instructor: Fjone, Andra Lynn
- 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; prerequisite instructor consent;
- Instructor: Viker, Susan Kay
- Description: Student may contact the instructor or department for information.

### NUTR 8602 Advances in Nutrition
- 2-3 credit(s), max credits 6, 3 repeats allowed; prerequisite instructor consent;
- Instructor: Brady, Linda J
- Description: Student may contact the instructor or department for information.

### NUTR 8624 Nutrition and Genetics
- A-F only, 2 credit(s); prerequisite Biochemistry;
- Instructor: Peterson, Sabrina
- Description: Student may contact the instructor or department for information.

### OBST 8224 Gynecological Endocrinology I
- 1-15 credit(s), max credits 15, 1 repeat allowed; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite 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

2-6 credit(s), max credits 12;
Instructor: Carson,Linda F
Description: Student may contact the instructor or department for information.

OT 5182 Functional Neuroanatomy and Neurophysiology

A-F only, 4 credit(s); prereq Registered occupational therapy student or instr consent ;
Instructor: Martin PhD,Peggy Mae
Description: Student may contact the instructor or department for information.

OT 5341 Introduction: Evaluation and Intervention I

A-F only, 4 credit(s); prereq 5393 or instr consent ;
Instructor: Anderson,Diane R
Description: Student may contact the instructor or department for information.

OT 5342 Compensatory Rehabilitation: Evaluation and Intervention II

A-F only, 4 credit(s); prereq 5300, 5313 or instr consent ;
Instructor: Meyers,Cheryl Ann
Description: Student may contact the instructor or department for information.

OT 5344 Neurorehabilitation: Evaluation and Intervention IV

A-F only, 5 credit(s); prereq 5343 or instr consent ;
Instructor: Martin PhD,Peggy Mae
Description: Student may contact the instructor or department for information.

OT 5375 Adult Education and Planning

A-F only, 1 credit(s); prereq 5313 or instr consent ;
Instructor: Meyers,Cheryl Ann
Description: Student may contact the instructor or department for information.

OT 5380 Management of Occupational Therapy Services

A-F only, 3 credit(s); prereq [5360, 5375, 5376] or instr consent ;
Instructor: Schaber PhD,Patricia Louise
Description: Student may contact the instructor or department for information.

OT 5391 Occupation Across the Life Span

A-F only, 3 credit(s); prereq [5375, 5376] or instr consent ;
Instructor: Meyers,Cheryl Ann
Description: Student may contact the instructor or department for information.

OT 5392 Research in Occupational Therapy

A-F only, 3 credit(s); prereq 5313 or instr consent ;
Instructor: Mathiowetz PhD,Virgil G
Description: Student may contact the instructor or department for information.

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 6100 Public and Professional Engagement I

S-N only, 0.5 credit(s), max credits 1;
Instructor: Martin PhD,Peggy Mae
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: Meyers,Cheryl Ann
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: Student may contact the instructor or department for information.

OT 6213 Occupational Therapy Process for Individuals:

Medical Contexts
A-F only, 2 credit(s); prereq OT student or instr consent ;
Instructor: Howe,Malia
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 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.

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 5109 Advanced Ojibwe Language II
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;
 Instructor: Fairbanks, Brendan George
Description: Student may contact the instructor or department for information.

Operations and Management Sciences
3-140 CarlSMgmt

OMS 3045 Purchasing and Supply Management
A-F only, 2 credit(s);
Instructor: Novitzki, Thomas
Description: Student may contact the instructor or department for information.

OMS 4081 Operations Strategy and Technology
A-F only, 4 credit(s); prereq 3001;
Instructor: Misterek PhD, Susan Amundson
Description: Student may contact the instructor or department for information.

OMS 6041 Project Management
A-F only, 2 credit(s), max credits 4, 1 repeat allowed; prereq MBA 6220 or equiv;
Instructor: Fiedler, Corrinne Marie
Description: Student may contact the instructor or department for information.

OMS 6056 Managing Supply Chain Operations
A-F only, 4 credit(s); prereq MBA 6220 or equiv;
Instructor: Hill PhD, Arthur V
Description: Student may contact the instructor or department for information.

OMS 6056 Managing Supply Chain Operations
A-F only, 4 credit(s); prereq MBA 6220 or equiv;
Instructor: Donohue, Karen Lisa
Description: Student may contact the instructor or department for information.

OMS 6065 Strategic Supply Chain Management
A-F only, 2 credit(s); prereq 6056, MKTG 6060, [IDSc 6442 or IDSc 6423], 2nd yr MBA; Credit will not be granted if credit has been received for: MKTG 6065;
Instructor: Ohannesian, Judy T
Description: Student may contact the instructor or department for information.

OMS 6072 Managing Technologies in the Supply Chain
A-F only, 4 credit(s); prereq MBA 6220 or instr consent;
Instructor: Sinha, Kingshuk Kanti
Description: Student may contact the instructor or department for information.

OMS 6850 Topics in Operations and Management Science:
Experimental Design
A-F only, 3 credit(s), max credits 12, 4 repeats allowed;
prereq MBA 6220 or equiv or instr consent;
Instructor: Li, William
Description: Student may contact the instructor or department for information.

OMS 6851 Experimental Design
A-F only, 3 credit(s), max credits 4, 1 repeat allowed; prereq MBA 6120 or equiv or business admin PhD student or instr consent; offered alt yrs;
Instructor: Li, William
Description: Student may contact the instructor or department for information.

OMS 8735 Operations Forecasting and Inventory Research
A-F only, 3 credit(s), max credits 4, 1 repeat allowed; prereq Business admin PhD student or instr consent; offered alt yrs;
Instructor: Hill PhD, Arthur V
Description: Student may contact the instructor or department for information.

Oral Biology
15-209 MoosT

OBI 0802 Oral Neuroscience
2 credit(s); prereq Dental specialist or oral research trainee or instr consent;
Instructor: Bereiter, David A
Description: Student may contact the instructor or department for information.

OBI 0804 Genetics and Human Disease
1 credit(s); prereq Dental specialist or oral research trainee or instr consent;
Instructor: Gopalakrishnan, Rajaram
Description: Student may contact the instructor or department for information.

OBI 0808 Molecular Basis of Cellular and Microbial Adhesion
A-F only, 2 credit(s); prereq Dental specialist or oral research trainee or instr consent;
Instructor: Herzberg, Mark C
Description: Student may contact the instructor or department for information.

OBI 0809 Directed Research
S-N only, 1-10 credit(s), max credits 10, 1 repeat allowed;
OSUR 5257 Ambulatory General Anesthesia for the Oral and Maxillofacial Surgeon
A-F only, 0-6 credit(s), max credits 6, 1 repeat allowed; prerequisite Participation in oral and maxillofacial surgery training program;
Instructor: Hughes, Pamela Jean
Description: Student may contact the instructor or department for information.

OSUR 5276 Medicine Rotation for the Oral and Maxillofacial Surgeon
A-F only, 0-4 credit(s), max credits 4, 1 repeat allowed; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite 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; prerequisite Orthodontic grad student;
Instructor: Vayda, Patricia Macchiarul
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; prerequisite 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; prerequisite Orthodontic grad student;
Instructor: Miller DDS, MS, James Robert
Description: Student may contact the instructor or department for information.

Otolaryngology

8-240 PWB (Mayo Mail Code 396)
### University of Minnesota - Course Guide for Twin Cities Campus

#### Spring 2008

**OTOL 5101 Introduction to the Basic Sciences in Otalaryngology I: Ear**
- A-F only, 2 credit(s); prereq Otalaryngology 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 Otalaryngology II: Head and Neck**
- A-F only, 2 credit(s); prereq Otol 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, 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: Juhn, 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.

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**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.

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This information is accurate as of 9/15/2008 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 9/15/2008 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.

Periodontics
7-368 MoosT

PERO 8000 Advanced Clinical Periodontology
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed; prereq Resident in advanced education program in periodontology;
Instructor: Hinrichs, James Edward
Description: Student may contact the instructor or department for information.

PERO 8200 Clinical Seminars
1 credit(s); prereq Resident in advanced education program in periodontology;
Instructor: Sundt, Barbara Anne
Description: Student may contact the instructor or department for information.

PERO 8250 Anatomy of the Periodontium
A-F only, 1 credit(s); prereq Resident in advanced education program in periodontology;
Instructor: Sadrai, Mahmoud
Description: Student may contact the instructor or department for information.

Persian
214 Nolte Center

PERS 1102 Beginning Persian II
5 credit(s); prereq 1101; Credit will not be granted if credit has been received for: PERS 4102;
Instructor: Sundt, Barbara Anne
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.

Pharmaceutics
9-177 Weaver-Densford Hall

PHM 8100 Seminar: Pharmaceutics
S-N only, 1 credit(s), max credits 4, 4 repeats allowed; prereq Grad Phm major;
Instructor: Siegel, Ronald Alan
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; prereq Grad Phm major; Credit will not be granted if credit has been received for: PHAR 6223;
Instructor: Fairbanks, Carolyn Ann
Description: Student may contact the instructor or department for information.

Pharmacology
6-120 Jackson Hall

PHCL 3100 Pharmacology for Pre-Med and Life Science
Students
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; prereq Upper div or grad student or instr consent;
Instructor: Loh, Horace H
Description: Student may contact the instructor or department for information.

PHCL 5111 Pharmacogenomics
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 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.

Pharmacy
5-110 Weaver-Densford Hall

PHAR 1001 Orientation to Pharmacy
PHAR 1002 Health Sciences Terminology
2 credit(s);
Instructor: Pittenger,Amy Louise
Description: Student may contact the instructor or department for information.

PHAR 1003 Non-Prescription Medications and Self-Care: Treating Minor Conditions
2 credit(s);
Instructor: Pittenger,Amy Louise
Description: Student may contact the instructor or department for information.

PHAR 1004 Common Prescription Drugs and Diseases
2 credit(s);
Instructor: Pittenger,Amy Louise
Description: This self-study, unlimited enrollment online course for undergraduate and professional students informs about frequently prescribed medications (e.g., Lipitor) and the diseases these medications are intended to treat (e.g., high cholesterol). Examples of course topics include: migraines, obesity, asthma, and pregnancy prevention. There is no textbook for this course. Students use Vista to: view audio-narrated powerpoint presentations, download handout materials (also available for purchase), and complete self tests in preparation for exams. The required 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 10-week Summer term. For more information on this flexible course, explore the course website and/or contact <ahref="http://www.pharintr.umn.edu/http://wwwpharintr.umn.edu/<a> or 612-624-7976.
Style: self-study
Grading: 100% other evaluation. Average of 4 exam scores and/or contact <rxdx@umn.edu> or 612-624-7976.
Exam Format: Multiple Choice

PHAR 3700 Fundamentals of Pharmacotherapy
A-F only, 3 credit(s);
Instructor: Pittenger,Amy Louise
Description: Student may contact the instructor or department for information.

PHAR 3800 Pharmacotherapy for the Health Professions
A-F only, 3 credit(s);
Instructor: Janke PhD,Kristin Kari
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 prereqs 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 or course website or contact pharmacy@umn.edu or 612-624-7976.
Style: self-study with 2 scheduled in-person testing sessions
Grading: 20% reports/papers, 30% quizzes, 50% other evaluation. 2 exams
Exam Format: Multiple Choice

PHAR 3860 Pharmacotherapy for the Health Professions
A-F only, 3 credit(s);
Instructor: Pittenger,Amy Louise
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 prereqs 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 or course website or contact pharmacy@umn.edu or 612-624-7976.
Style: self-study with 2 scheduled in-person testing sessions
Grading: 20% reports/papers, 30% quizzes, 50% other evaluation. 2 exams
Exam Format: Multiple Choice

PHAR 4200W Drugs and the U.S. Health Care System
A-F only, 3 credit(s);
prereq Enrolled [nursing or radiation therapy or respiratory care] student;
Instructor: Bumgardner,Melissa Ann
Description: This online course prepares students to be informed and responsible users of medications within the healthcare system and fulfills a writing intensive requirement. 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% in-class presentation. in class participation is defined as postings to the course discussion board

PHAR 5200 Drug-related Policy and the U.S. Health Care System
A-F only, 3 credit(s);
prereq Grad student; Credit will not be granted if credit has been received for: PHAR 5200; Meets CLE req of Writing Intensive;
Instructor: Pittenger,Amy Louise
Description: Phar 5200 Drugs and the US Healthcare System 3 cr. Prereqs: none Instructor: Pittenger, PharmD, MS, Amy L. This online course prepares students to be informed and responsible users of medications within the healthcare system and fulfills a writing intensive requirement. 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% in-class presentation. in class participation is defined as postings to the course discussion board
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); prereq Basic knowledge of human anatomy/physiology;
**Instructor:** Pittenger, Amy Louise

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

**PHAR 5700 Applied Fundamentals of Pharmacotherapy**

A-F only, 3 credit(s); prereq Medical terminology, admission to grad program or instr consent; 
**Instructor:** Pittenger, Amy Louise

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

**PHAR 6165 Pharmaceutical Calculations**

A-F only, 1 credit(s); prereq 1st yr pharmacy student; 
**Instructor:** Brown, Michael C

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

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### Philosophy

**831 Heller Hall**

**PHIL 1002V Honors: Introduction to Philosophy**

4 credit(s); Credit will not be granted if credit has been received for: PHIL 1002W; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; 
**Instructor:** Cook, Roy Thomas

**Description:** This course will present a historically motivated introduction to philosophy in three parts. The first part will concentrate on philosophy in the ancient world, focusing on Plato's "Republic". The second section of the course will concentrate on important trends that developed in the Seventeenth Century, and our primary readings will be from Rene Descartes "Meditations on First Philosophy". Finally, we will examine a number of paradoxes, and our target here will be determining how these puzzles motivated and shaped philosophical thought throughout history.

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

**Grading:** 30% reports/papers, 60% additional semester exams, 10% class participation.

**PHIL 1002W Introduction to Philosophy**

4 credit(s); Credit will not be granted if credit has been received for: PHIL 1002W; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; 
**Instructor:** Cook, Roy Thomas

**Description:** This course will present a historically motivated introduction to philosophy in three parts. The first part will concentrate on philosophy in the ancient world, focusing on Plato's "Republic". The second section of the course will concentrate on important trends that developed in the Seventeenth Century, and our primary readings will be from Rene Descartes "Meditations on First Philosophy". Finally, we will examine a number of paradoxes, and our target here will be determining how these puzzles motivated and shaped philosophical thought throughout history.

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

**Grading:** 30% reports/papers, 60% additional semester exams, 10% class participation.

**PHIL 1004W Introduction to Political Philosophy**

4 credit(s); Credit will not be granted if credit has been received for: PHIL 1004V; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; 
**Instructor:** Root, Michael D

**Description:** This course considers two questions: first, what do citizens owe their government and, second, what does a government owe them in return? We will look at the different answers philosophers have given to these two questions and give special attention to the arguments they have used to support them. Students registered for 1004 can also register for a practicum, Phil 1007; it carries 1 additional credit and requires at least two hours a week of community service or 26 hours over the semester. Approved opportunities for community service can be arranged through the Career and Community Learning Center, 345 Fraser Hall, 626-2044 (email: cclc@adv.cla.umn.edu) (Monica Siems, 624-6574, msiemss@class.cla.umn.edu). All students taking 1007 must take 1004, but not all students in 1004 need to take 1007.

**PHIL 1006W Philosophy and Cultural Diversity**

4 credit(s); Credit will not be granted if credit has been received for: PHIL 1002W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; 
**Instructor:** Lewis, Douglas E

**Description:** Incorporating both lecture and discussion, this course will introduce you to philosophy through culturally diverse texts. We will explore analyses of the nature of identity, human beings in relation to one another, and human beings in relation to the nonhuman world and such central themes of cultural diversity as race, gender, and disability.

**Grading:** 75% reports/papers, 25% other evaluation. discussion, participation, informal writing, presentations.

**PHIL 1007 Introduction to Political Philosophy Practicum**

1 credit(s); prereq Concurrent registration is required (or allowed) in 1004W; Meets CLE req of Citizenship/Publ Ethics Theme; 
**Instructor:** Root, Michael D

**Description:** Students must also be registered for Phil 1004. The course is designed to tie issues studied in Phil 1004 to the needs of people in the Twin Cities through community service. At least 26 hours of community service for the semester is required. Students in Phil 1007 attend classes for Phil 1004 and write 5 (2-page) biweekly papers, as well as give a presentation in Phil 1004.

**Style:** community service

**Grading:** 80% reports/papers, 20% in-class presentation.

**Exam Format:** No exams

**PHIL 1905 Topics: Freshman Seminar: Socrates and His Philosophy**

A-F only, 3 credit(s), max credits 6; prereq freshman; 
**Instructor:** Peterson, Sandra Lynne

**Description:** The execution of Socrates in 399 BC for corrupting the youth of Athens is considered a founding event of Western philosophy. We will study Socrates as depicted in Plato's dialogues, since Socrates himself wrote nothing. We will read (i) Plato's depiction of Socrates' defense speech at his trial, (ii) Plato's depiction of conversation between Socrates and some adolescent interlocutors, and (iii) Plato's depiction of conversation between Socrates and some professional educators of Athenian youth. We will attempt to understand what

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This information is accurate as of 9/15/2008 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.
Socrates meant when, in reaction to the Delphic oracle's pronouncement that no one was wiser than Socrates, Socrates said that he knew nothing important. We will attempt to understand whether, in fact, Socrates thought he was corrupting young people, and to understand why reflecting on Socrates might improve us today. Course readings will include Plato's Apology, Lysis, Hippias Minor, Gorgias, and part of Plato's Republic.

**PHIL 1905 Topics: Freshman Seminar: Fossils and Philosophy: Historical Knowledge**

A-F only, 3 credit(s), max credits 6; prereq freshman; Instructor: Love, Alan C

Description: Almost everyone is familiar with fossils and reconstructing past life using computer animation is big business. But how do we know about past forms of life, such as dinosaurs, which are now extinct? We only have trace remains of their existence in fossils. These require tremendous knowledge and interpretation to understand their meaning. From the perspective of historical sciences (such as geology or paleontology), how does the 'scientific method' operate when you cannot go back and observe or experiment on what you are trying to explain? How can we be confident that our understanding of the past (historical knowledge), whether it be rocks, fossils or human history, is correct (even in part)? How do historical sciences generate knowledge? These philosophical questions will occupy us in this course as we attempt to achieve three objectives: (1) identify the philosophical issues surrounding historical science explanations; (2) comprehend how these philosophical issues play a role in both the interpretation of fossils and their use as evidence; and, (3) recognize the relevance of philosophy of science to ongoing scientific investigation. No prior experience with the topic is necessary to take the course and freshmen from all colleges and/or majors are welcome.

Style: 50% Lecture, 40% Discussion, 5% Small Group Activities, 5% Student Presentation.

Grading: 45% reports/papers, 30% journal, 15% in-class presentation, 10% class participation.

**PHIL 3005W General History of Western Philosophy: Modern Period**

4 credit(s); Credit will not be granted if credit has been received for: PHIL 3005V; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive; Instructor: Hanks, Peter William

Description: The modern period in philosophy, stretching roughly from the late 16th century through the early 18th century, was inaugurated by the scientific revolution of Galileo and Newton, in which the ancient world-view of Aristotle and the medieval philosophers was overthrown by a new, mechanistic conception of the world. Some of the greatest philosophers of all time lived and wrote during this period, including Rene Descartes, Baruch Spinoza, Gottfried Leibniz, John Locke, George Berkeley, David Hume, and Immanuel Kant. In this course we will study the central texts of these philosophers. Our main goal will be to understand their views about the nature of reality (metaphysics) and the extent of our knowledge and the ability to reason. Authors will include: Thomas Aquinas; John Austin; H.L.A. Hart; J.S. Mill; Ronald Dworkin. We will supplement philosophical sources with legal cases.

Style: 80% Lecture, 20% Discussion.

Grading: 40% final exam, 60% reports/papers.

Exam Format: essay (closed book)

**PHIL 3304 Law and Morality**

4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; Instructor: Holtman, Sarah William

Description: We will take up traditional issues in philosophy of law and related moral questions. Among the topics we will consider are: the debate between natural law theory and legal positivism; the appropriate place of morality in the law; competing accounts of justice and decision-making; authors will include: Thomas Aquinas; John Austin; H.L.A. Hart; J.S. Mill; Ronald Dworkin. We will supplement philosophical sources with legal cases.

Style: 70% Lecture, 30% Discussion.

Grading: 20% mid exam, 25% final exam, 55% reports/papers.

Exam Format: Essay

**PHIL 3305 Medical Ethics**

4 credit(s); Instructor: Hopkins, Jasper

Description: The course deals with a number of typical problems encountered in the area of medical ethics—problems related to brain death, the persistent vegetative state, partial-birth abortion, informed consent, confidentiality, organ about beliefs, and in which we depend on other people for much of what we need to know) and to relate what we learn to questions and topics in mainstream epistemology (theory of knowledge), which doesn't typically address these issues. Readings will be drawn from a newly published anthology, Just Methods: A Reader in Feminist Epistemology, edited by Alison Jaggar. A key theme running through the readings is the complex inter-relationship between social power and inequality, on the one hand, and the production of knowledge, on the other. A second and related theme is the inseparability of research projects and methodologies from ethical and political values. In addition, students will work in small groups to prepare a presentation to the class exploring questions of trust and trustworthiness concerning knowledge claims in some area of particular interest. (Some past projects have looked at Wikipedia, at the safety of childhood vaccinations, and at controversies about evolution and intelligent design.) The course is suitable for both philosophy majors and non-majors and will be most exciting if students bring a wide range of backgrounds, perspectives, and interests to the course. Course format will emphasize small group, full class, and web-based discussion; there will be about 50-75 pp. of (pretty dense) reading a week; writing assignments will be frequent and relatively short; and there will be no examinations.

Style: 35% Lecture, 40% Discussion, 15% Small Group Activities, 10% Student Presentation.

Grading: 20% reports/papers, 60% reflection paper, 15% in-class presentation, 5% class participation.

**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; 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 online. On the positive side, this means that no course-books need 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 online, or can print them out).

Style: 80% Lecture, 20% Discussion.

Grading: 40% final exam, 60% reports/papers.

Exam Format: essay (closed book)

**PHIL 3324 Knowledge and Society**

4 credit(s); Meets CLE req of Cultural Diversity Theme; Instructor: Scheman, Naomi

Description: Critical discussion of concepts such as knowledge, objectivity, justification, rationality, evidence, authority, expertise, and trust in relation to the norms and privileges of gender, race, class, sexuality, and other social categories. We will be concerned both to explore how these concepts function in their natural habitat (the world in which we form, question, and argue
PHIL 3308 Social Justice and Community Service
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme; Instructor: Wallace, John R
Description: This is the second course in a sequence of two courses in which students explore social justice and community service. The present course is designed to stand alone. Students who are entering the sequence at this point should feel--because they are--perfectly welcome and on an equal footing. All students in the course are required to be involved in some ongoing work in the community ("community service") for at least two hours per week. The guiding theme for the course is "going home, or going some other place, and digging in." We will be exploring what this means, what supports it, what prevents it. This theme, and the "going home and digging in" language to describe it, is drawn from the first book we will read, Wes Jackson's Becoming Native to This Place. In the context of the guiding theme, the course places a strong emphasis on diversity. Home is going to be a diverse place; and digging in requires building common ground with people who are different from ourselves in many ways. Through reading, discussion, and writing, and through interviews with members of our families and communities, we will seek to deepen our understanding of diversity and, especially, to understand some of the challenges, possibilities, and rewards of building common ground among diverse persons.
Style: 25% Lecture, 75% Discussion.
Grading: 50% reports/papers, 50% class participation.

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: Moore, Christopher Robert
Description: This course in aesthetics studies interpretation and judgment, the moral effect of artworks, the use of narrative, and the relationship between pleasure, beauty, and excellence. Understanding our engagement with the social practice of art--as judges, producers, and audience--helps us understand ourselves as political animals. Our goal is to see how reflecting on art can bring a person to self-knowledge, critique, and reform. We will work mainly with performed literary works of ancient Greece: stories read by parents, poems sung by rhapsodists, dramas performed by actors, dialogues read by lectors. Constraining ourselves to Homer, Aesop, Sappho, Pindar, Sophocles, Aristophanes, Plato, Aristotle, and Longinus aids us in seeing relations between genres and between genres and the people and societies responsible for them. We read literature philosophically and philosophical works literally. This course has very frequent writing exercises, 30pp of reading per class, several off-campus activities, two 50-min. midterms, and a final 2-hour exam. You may read some or all of the Iliad (any verse translation) by the first week of the semester for extra-credit.
Style: The class will comprise discussion-oriented lectures, art appreciation, and occasional guest speakers and casual field-trips.

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: Nounou, 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 the 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 4320W Intensive Study of an Historical Moral Theory
3 credit(s); max credit(s): 6; prereq 1003 or instr consent;
Meet CLE req of Writing Intensive;
Instructor: Mason, Michael N
Description: How should you live your life? Are wealth and fame the best you can aim for? What place should friendship and virtue play in such a life? For Aristotle (384-322 BC), these are some of the central questions of ethics. In this course, we will engage in a close reading of Aristotle’s great ethical work, the Nicomachean Ethics, in order both to understand him in the context of his times and to assess what his ethical thought might have to offer us moderns.

PHIL 4324 Ethics and Education
3 credit(s); prereq 6 cr in [philosophy or education] or instr consent;
Credit will not be granted if credit has been received for:
PHIL 5324;
Instructor: Wallace, John R
Description: Class Description: This course explores the question: What is good education? and connections between this question and related questions: ?What is a good society?? and ?What is a good life?? Students will approach these questions in two ways, through reading and discussion and through design of educational settings intended to realize educational and societal values. Authors read will include John Dewey, James Herndon, Myles Horton, Marion Milner and D.W. Winnicott. Students will put the ideas they are studying to work in producing designs of educational settings. This course is for graduate students and undergraduate students, philosophy majors and non-majors.
Style: 20% Lecture, 80% Discussion.
Grading: 50% reports/papers, 50% class participation.

PHIL 4510 Philosophy of the Individual Arts
3 credit(s); prereq 3502; Credit will not be granted if credit has been received for:
PHIL 5510;
Instructor: Kac, Michael B
Description: Topic: philosophy of music Music is a highly controversial subject in the philosophy of art. Some consider it to be the expressive art par excellence while others deny that it is capable of expressing anything. Against those who take it as self-evident that music is a kind of language are those who would deny that this is so. Analogies are constantly drawn between music and other areas of human endeavor, such as mathematics, architecture and literature, while skeptics warn of the dangers of pressing these analogies too far. Music is described as making a direct appeal to the emotions and as not essential.
Style: 100% Lecture.
Grading: 50% mid exam, 50% final exam.
Exam Format: essay

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 4995 Senior Project (Directed Studies)
1 credit(s); prereq 1003 or instr consent;
Instructor: Kac, Michael B
Description: Student may contact the instructor or department for information.

PHIL 5202 Symbolic Logic II
4 credit(s); prereq 5201 or instr consent;
Instructor: Hanson, William H
Description: The goal of this course is to introduce students to the great metatheorems of Church, Goedel, and Tarski, and to provide a brief introduction to second-order logic. We will begin by studying some simple abstract "machines" Turing machines, and we'll use the knowledge thus gained to prove Church's Theorem (first-order logic is undecidable). Goedel's two incompleteness theorems (concerning limitations of formal theories) and Tarski's theorem (about limitations on definitions of truth) will then be studied, although some of the details of their proofs will be omitted. We'll also read and discuss a paper on the implications, if any, of Goedel's theorems for the philosophy of mind. Finally, we will study second-order languages. The great expressive power of these languages makes their logical properties very different from those of first-order languages. Required text: Boolos, Burgess, & Jeffrey, "Computability and Logic," 5th ed., and a small packet of articles.
Style: 60% Lecture. 40% Discussion.
Grading: 20% problem solving, 80% other evaluation. exams (including final)
Exam Format: problems to solve

PHIL 5325 Biomedical Ethics
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 5602 Scientific Representation and Explanation
3 credit(s); prereq instr consent;
Instructor: Love, Alan C
Description: Several 19th century philosopher-scientists argued for different conceptions of the nature of science or natural philosophy: August Comte, John Herschel, William Whewell, and John Stuart Mill. To varying degrees, they disagreed about how best to characterize knowledge, explanation, and inductive inference concerning the natural world. These writings had a profound impact on the actual practice of science and have ongoing relevance for philosophical discussions of science today. In this course we will closely read portions of these author’s major contributions in an attempt to comprehend the nature of their arguments, as well as discern the effects of their different positions on working scientists (e.g. Charles Darwin). Additionally, we will look at the work of the methodologically reflective physiologist, Claude Bernard, in order to explore the key differences between the epistemologies of historical and experimental science that emerged in the 19th century.
Style: 60% Lecture, 40% Discussion.
Grading: 90% reports/papers, 10% class presentation.
PHIL 8085 Seminar: History of Philosophy--Modern Philosophers
3 credit(s); prereq instr consent;
Instructor: Lewis,Douglas E
Description: We will address central problems of metaphysics (e.g., the existence of external and independent objects), epistemology (whether and how we acquire knowledge), and ethics (what is incumbent on us as moral beings and why it is so) and the solutions proposed in the contrasting philosophies of Descartes and Hume. I emphasize historical context and contemporary influence and also raise the question of what philosophy is and what it can accomplish.

PHIL 8130 Seminar: Epistemology
3 credit(s), max credits 6; prereq 4105 or instr consent;
Instructor: Hellman,Geoffrey
Description: In what sense, if any, is physical science “fundamental”? Does this require the reducibility of higher order sciences (e.g. biology, the social sciences, psychology) to physical science? If not, what does it require, and should we believe it? After probing these questions, we’ll turn to an intriguing example from social geography, that of Jared Diamond’s Guns, Germs, and Steel on the origins, distribution, and impact of civilizations and empires. This provides an excellent testing ground for some of the leading ideas on intertheoretic relations discussed in the opening section of the seminar. Roughly the second half of the seminar will be devoted to the topic of “consciousness”, the last “hold-out” as it were (after the collapse of “vitalism”), of “human exceptionalism”, something essentially human and allegedly beyond the reach of physical science. Here we’ll examine leading arguments on two opposing sides of this as illustrated in work of Daniel Dennett, Consciousness Explained and David Chalmers, The Conscious Mind. Students will be encouraged to make a presentation to the class framing discussion on the topic(s) at hand; and they will be expected to produce a research paper on a topic related to the material covered in the course.

PHIL 8180 Seminar: Philosophy of Language
3 credit(s), max credits 6; prereq 4231 or instr consent;
Instructor: Hanks,Peter William
Description: In this seminar we’re going to take an extended look at the theory of direct reference, arguably the most significant advance in philosophy of language in the past half century. According to this theory, ordinary proper names, e.g. ‘Hillary Clinton’, and other referential terms are non-descriptive. This means that names and other referential terms have no descriptive content as part of their meanings. This is in direct contrast with the Fregean or descriptivist theory of names and referential terms, which holds that names and other referential terms do contain descriptive information in their meanings. The Fregean view has been the target of some of the most important philosophical work of the past fifty or so years, including Kripke’s modal argument, Putnam’s twin-earth argument, and Kaplan’s work on demonstratives. This work has raised a host of metaphysical and epistemological issues about essentialism and identity, a priori knowledge, the nature of belief, the semantics/pragmatics distinction, non-existent objects, the metaphysics of modality, and many other important topics. In this seminar we will carefully work our way through a large portion of the literature on these issues. The aim is to provide graduate students and advanced undergraduates a good working knowledge of the various positions and arguments in the debate about direct reference.

PHIL 8310 Seminar: Seminar: Moral Philosophy
3 credit(s), max credits 9, 3 repeats allowed; prereq 4310 or 4320 or 4330 or instr consent;
Instructor: Tiberius,Valerie
Description: Student may contact the instructor or department for information.

PHIL 8994 Directed Research
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Mason,Michelle N
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: Larson,Adam James
Description: Introduction to basic aquatic safety, fundamentals of swimming and hydrodynamics. Principles of hydrodynamics and stroke mechanics; five basic strokes; basic rescue techniques with use of pool equipment; hydrotherapy for disabilities and other conditions, opportunities for competitive activities, lifetime enjoyment of aquatics.

PE 1012 Beginning Running
OPT No Aud, 1 credit(s);
Instructor: Eaton,Lois M

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Eaton,Lois M
Description: Fundamentals of personal fitness. Principles of fitness; health and motor skill components of fitness; principles of training/conditioning programs; nutrition; weight control; common fitness injuries; motivation and consistency in fitness programs; stress management.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Bipes,Theresa Helen
Description: Fundamentals of personal fitness. Principles of fitness; health and motor skill components of fitness; principles of training/conditioning programs; nutrition; weight control; common fitness injuries; motivation and consistency in fitness programs; stress management.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Lobby,Mackenzie Younger
Description: Fundamentals of personal fitness. Principles of fitness; health and motor skill components of fitness; principles of training/conditioning programs; nutrition; weight control; common fitness injuries; motivation and consistency in fitness programs; stress management.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Mikl,Cody Lee
Description: Fundamentals of personal fitness. Principles of fitness; health and motor skill components of fitness; principles of training/conditioning programs; nutrition; weight control; common fitness injuries; motivation and consistency in fitness programs; stress management.
Description: Fundamentals of personal fitness. Principles of fitness; health and motor skill components of fitness; principles of training/conditioning programs; nutrition; weight control; common fitness injuries; motivation and consistency in fitness programs; stress management.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Becker, Erin Elizabeth
Description: Fundamentals of personal fitness. Principles of fitness; health and motor skill components of fitness; principles of training/conditioning programs; nutrition; weight control; common fitness injuries; motivation and consistency in fitness programs; stress management.

PE 1015 Weight Training
OPT No Aud, 1 credit(s);
Instructor: Aman, Joshua Emanuel
Description: Fundamentals of personal fitness. Principles of fitness; health and motor skill components of fitness; principles of training/conditioning programs; nutrition; weight control; common fitness injuries; motivation and consistency in fitness programs; stress management.

PE 1015 Weight Training
OPT No Aud, 1 credit(s);
Instructor: Lobio, Mackenzie Younger
Description: Introduction to weight training. Basic aspects of weight training including exercise selection and technique, charting workouts, program design, nutritional considerations, and safety.

PE 1015 Weight Training
OPT No Aud, 1 credit(s);
Instructor: Miki, Cody Lee
Description: Introduction to weight training. Basic aspects of weight training including exercise selection and technique, charting workouts, program design, nutritional considerations, and safety.

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.

PE 1029 Handball
OPT No Aud, 1 credit(s);
Instructor: Carlson, James Earl
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: 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: Basic racquetball techniques, movement, an overview of racquetball as a recreational sport and an Olympic sport, and the history of racquetball.

This information is accurate as of 9/15/2008 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: 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: Scott, Andrew Thomas
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 rackets 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, lobs, overheads, and serves; introduction to doubles play; terminology, rules, and etiquette.

PE 1038 Beginning Tennis
OPT No Aud, 1 credit(s);
Instructor: Kang, Hyoungkil
Description: Fundamental strokes, including forehands, backhands, volleys, lobs, overheads, and serves; introduction to 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 events 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 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: Bipes, Theresa Helen
Description: Safety, knots, equipment, techniques, and anchor systems used in climbing. Course includes all necessary equipment. Held at St. Paul Gym climbing wall.
PE 1045 Rock Climbing
OPT No Aud, 1 credit(s); prereq Good general health, no neck or back problems;
Instructor: Hoffman, Mitchell Lee
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 1047 Backpacking
OPT No Aud, 2 credit(s); prereq Good general health, no back problems;
Instructor: Marchand, Genevieve
Description: Packing/fitting a backpack, trip planning, trail safety, gear selection, backcountry cooking, minimum impact camping/travel. Emphasizes practical skills and best practices. Four-day backpacking trip.

PE 1048 Bowling
OPT No Aud, 1 credit(s);
Instructor: Schmid, Michael F
Description: Basic turns, basic stops, balance techniques, and various other skills from both the forward and backward positions. Equipment, safety issues, ice skating terminology.

PE 1053 Ice Skating
OPT No Aud, 1 credit(s);
Instructor: Sucha, Amy
Description: Basic turns, basic stops, balance techniques, and various other skills from both the forward and backward positions. Equipment, safety issues, ice skating terminology.

PE 1055 Golf
OPT No Aud, 1 credit(s);
Instructor: Ause, Angela Jean
Description: Proper grip, stance, ball address, swing, club selection, psychological management, rules, and etiquette. Basic instruction in analyzing, assisting with, and coaching golf.

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 1055 Golf
OPT No Aud, 1 credit(s);
Instructor: Mikl, Cody Lee
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 1057 Beginning Skiing
OPT No Aud, 1 credit(s); prereq $100 facility fee;
Instructor: Eaton, Lois M
Description: Introduction to alpine skiing. Students are taught to stop, turn, and use lifts, as well as safety, etiquette, and purchase of equipment. Class held at Highland Hills ski area in Bloomington.

PE 1058 Snowboarding
OPT No Aud, 1 credit(s); prereq Good general health, injury free; $100 facility fee;
Instructor: Eaton, Lois M
Description: Introduction to alpine snowboarding. Using American Teaching System, classes are split into nine skill levels, beginning through advanced. Held at Hyland Ski and Snowboard School in Bloomington.

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 1071 Beginning Cricket
OPT No Aud, 1 credit(s);
Instructor: Peterson, Charles E
Description: Fundamentals of Cricket. Laws of Cricket, bowling/batting techniques, competitive/recreational Cricket opportunities.

PE 1072 Soccer
OPT No Aud, 1 credit(s);
Instructor: Adamcsak, 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: Goetz, Tamara Ann
Description: Basic skills, team play, rules, officiating, and strategy.

PE 1075 Ice Hockey
OPT No Aud, 1 credit(s); prereq 1053 or equiv or instructor 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;
Instructor: Larson Adam James
Description: Intermediate swimming skills. Fundamentals of swimming and hydrodynamics.

PE 1107 Intermediate Swimming
OPT No Aud, 1 credit(s); prereq 1007 or equiv, proficient ability to swim 100 meters or instr consent;
Instructor: Theut Katrina Marie
Description: Intermediate swimming skills. Fundamentals of swimming and hydrodynamics.

PE 1133 Intermediate Foil Fencing
OPT No Aud, 1 credit(s); prereq 1033 or equiv or instr consent;
Instructor: Sobalvarro Robert J
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 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 Ilkeun
Description: Continuation of 1046. Focuses on Olympic-style intermediate skills/techniques. Self-defense techniques for men/women.

PE 1154 Figure Skating
OPT No Aud, 1 credit(s); prereq 1053 or equiv or instr consent;
Instructor: Sucha Amy
Description: This class is for intermediate to advanced figure skaters or those who have successfully completed PE 1053. Previous knowledge of skating fundamentals such as forward and backward crossovers, turns and stopping is required. Advanced skating skills will be taught with an emphasis on Jumps, Spins, Moves in the Field footwork sequences, beginning Ice Dance and choreography. Figure Skates rental available on site.
Style: 25% Lecture, 75% Laboratory.
Grading: 35% in-class presentation, 30% class participation.
Exam Format: Short answer

PE 1157 Intermediate Skiing
OPT No Aud, 1 credit(s); prereq 1057 or equiv or instr consent; assessment is made to determine skill level; $100 facility fee;
Instructor: Eaton Lois M
Description: Developed advanced skills in alpine skiing. Skiing safely on more difficult terrain. Class held at Highland Hills ski area in Bloomington.

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 may also decide to get a referral letter and take their openwater 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

Physical Therapy
382 Children's Rehabilitation Center

PT 6214 Clerkship II
A-F only, 2 credit(s); prereq Registered PT student;
Instructor: Olson-Kellogg Becky Jo
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 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;
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite</th>
<th>Instructor</th>
<th>Description</th>
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<tbody>
<tr>
<td>PT 8132</td>
<td>Research Seminar in Physical Therapy II</td>
<td>1</td>
<td>Prereg 8131, Grad PT major</td>
<td>Carey, James Robert</td>
<td>Student may contact the instructor or department for information.</td>
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<tr>
<td>PT 8132</td>
<td>Research Seminar in Physical Therapy II</td>
<td>1</td>
<td>Prereg 8131, Grad PT major</td>
<td>Ludewig, Paula M</td>
<td>Student may contact the instructor or department for information.</td>
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<td>PT 8132</td>
<td>Research Seminar in Physical Therapy II</td>
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<td>Lowe, Dawn Annette</td>
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<td>PT 8193</td>
<td>Research Problems in Physical Therapy</td>
<td>7-17</td>
<td>Max credits 7-17, 7 repeats allowed</td>
<td>Snow, Ph.D. LeAnn M</td>
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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; meets CLE req of Writing Intensive;
Instructor: Walah, Thomas Francis
Description: Energy and the Environment. 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. 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. The course may include visits to local power plants, guest speakers on renewable energy sources, and films of nuclear power accidents. An interactive web page includes a variety of energy and environmental resources. Math is a series of short experiments which illustrate the concepts as they are presented in class.
Style: 40% Lecture, 20% Discussion, 40% Laboratory.
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% quizzes, 15% laboratory evaluation, 5% problem solving.
Exam Format: Multiple choice, short calculations, and short written statements.

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: Rusack, Roger William
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.
Style: 50% Lecture, 15% Discussion, 35% Laboratory.
Grading: 30% final exam, 40% quizzes, 10% written homework, 5% class participation, 15% laboratory evaluation.

PHYS 1402V Honors Physics II
4 credit(s); prereq IT honors or consent of IT honors office; Credit will not be granted if credit has been received for: PHYS 1102W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: Crowell, Paul A
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.
Style: 50% Lecture, 15% Discussion, 35% Laboratory.
Grading: 30% final exam, 40% quizzes, 20% laboratory evaluation, 10% problem solving.
Exam Format: Written problems

PHYS 1910W Freshman Seminar: Writing Intensive: How Common is Extraterrestrial Life?
A-F only, 2 credit(s), max credits 3, 1 repeat allowed; prereq freshman; Meets CLE req of Writing Intensive;
Instructor: Hailey, J Woods
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]; Credit will not be granted if credit has been received for: PHYS 2403H;
Instructor: Ganz, Eric D
Description: This is the conclusion of a three-semester
introductory course in physics for students in the physical sciences and engineering who do not plan to take Phys 2601 and do not need to cover special relativity. The course is designed to prepare you for work in your field by building a solid conceptual understanding of the way the real world works based on fundamental principles of physics. It will develop and refine skills that are valuable in all technical and scientific disciplines: problem solving through application of physics concepts to new situations and effective communication of technical information. As 2503 covers a broad range of topics, the pace through new material is somewhat faster than 1301W and 1302W. There is no associated laboratory or discussion session for 2503. Problems done in lecture and homework assignments are essential for achieving understanding of the material, and emphasize application of physics principles to real-life situations. The subject matter includes: thermodynamics, mechanics and electromagnetic waves, optics, and quantum theory and its applications. Mastering these subjects requires a good working knowledge of the concepts and skills developed in 1301W and 1302W.

**Style:** 75% Lecture, 10% Discussion, 15% Demonstration.  
**Grading:** 30% final exam, 70% quizzes.

**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 problem solving skills.  
**Style:** 60% Lecture, 25% Discussion, 15% Demonstration.  
**Grading:** 20% mid exam, 40% final exam, 10% quizzes, 30% problem solving.  
**Exam Format:** Worked problems and multiple choice

**PHYS 2605 Quantum Physics Laboratory**  
3 credit(s); prereq concurrent enrollment 2601;  
**Instructor:** Cronin-Hennessy, Daniel P  
**Description:** This 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. The laboratory will give you 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:** Bresnahan, Nancy Koch  
**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 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:** Cattell, Cynthia Anne  
**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 3993 Directed Studies**  
1-5 credit(s), max credits 10, 10 repeats allowed; prereq instr consent, dept consent;  
**Instructor:** Halley, J Woods  
**Description:** Student may contact the instructor or department for information.

**PHYS 3994 Directed Research**  
1-5 credit(s), max credits 10, 10 repeats allowed; prereq instr consent, dept consent;  
**Instructor:** Broadhurst, John Henry  
**Description:** Student may contact the instructor or department for information.

**PHYS 4002 Electricity and Magnetism**  
4 credit(s); prereq [2303 or 2601 or Chem 3501 or Chem 3502], two sems soph math;  
**Instructor:** Huang, Cheng-Cher  
**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.  
**Style:** 76% Lecture, 22% Discussion, 2% Demonstration.  
**Grading:** 35% final exam, 33% quizzes, 26% written homework.
6% problem solving. Grades will be given in terms of an absolute grade scale.

Exam Format: closed book, students can bring written information in one index card

PHYS 4052W Methods of Experimental Physics II
5 credit(s); prereq 4051; Meets CLE req of Writing Intensive;
Instructor: Mans, Jeremiah M
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 4051are required to enter this course.

PHYS 4121 History of 20th-Century Physics
3 credit(s); prereq general physics or instr consent; Credit will not be granted if credit has been received for: HSCI 4121;
Instructor: Janssen, Michel
Description: This course is an introduction to the work of historians and philosophers of science trying to trace the conceptual development of 20th-century physics. Our main focus will be on the development of relativity theory (both special and general) and quantum theory in the first quarter of the century. Special attention will be paid to the contributions of Albert Einstein. We will also study some episodes in the further developments of these fields: in nuclear physics in the 1930s, in particle physics in the 1970s, in both cases with special attention to the interplay between theory and experiment. Finally, we will look at the development of big bang cosmology and its marriage with particle physics in inflationary cosmology. Readings are taken from a variety of sources. General surveys are used to get us started on a particular topic. That will prepare us for more specialized literature in history and philosophy of science. We will also read (passages from) some of the seminal texts written by the physicists we will study, both to get some of the flavor of their work and to evaluate interpretations and reconstructions of these texts offered in the historical and philosophical literature. The course is aimed at upper-level undergraduate and graduate students in physics, history of science, and philosophy of science, but should be of interest to other students with a strong interest in 20th-century physics as well.
Style: 90% Lecture.
Grading: 90% reports/papers, 10% class participation.
Exam Format: take home essay

PHYS 4911 Introduction to Biopolymer Physics
3 credit(s); prereq 2601, 4001, 4002;
Instructor: Kubota, Yuichi
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 or 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 homework.
Exam Format: Problem Solving

PHYS 4993 Directed Studies
1-5 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Kubota, Yuichi
Description: Student may contact the instructor or department for information.
PHYS 4994 Directed Research
1-5 credit(s), max credits 10, 10 repeats allowed; prereq instr consent;
Instructor: Broadhurst, John Henry
Description: Student may contact the instructor or department for information.

PHYS 5002 Quantum Mechanics II
4 credit(s); prereq 5001 or equiv;
Instructor: Qian, Yongzhong
Description: Student may contact the instructor or department for information.

PHYS 5012 Classical Physics II
4 credit(s); prereq 5011 or instr consent;
Instructor: Kapusta, Joseph I
Description: Student may contact the instructor or department for information.

PHYS 5072 Best Practices in College Physics Teaching
1-3 credit(s), max credits 5, 3 repeats allowed;
Instructor: Kubota, Yuichi
Description: Student may contact the instructor or department for information.

PHYS 5081 Introduction to Biopolymer Physics
3 credit(s); prereq working knowledge of [thermodynamics, statistical mechanics]; Credit will not be granted if credit has been received for: PHYS 4911;
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: 90% Lecture, 10% Discussion.
Grading: 25% mid exam, 25% final exam, 50% written homework.

PHYS 5402 Radiological Physics
4 credit(s); prereq 1302 or 1402;
Instructor: Broadhurst, John Henry
Description: This course examines the processes involved in studying biological systems, data acquisition and control systems, the interaction of biological systems with photons and charged particles, and the imaging of biological organisms. A concluding section is taught on the medical use of X-rays. The course is typically taken by graduate and undergraduate students interested in biophysics, physiology, biomedical engineering, physics, mechanical engineering and electrical engineering. The prerequisite is a working knowledge of calculus and general physics. Calculus is used extensively throughout the course. Specialized mathematical topics relevant to the course will be developed, as needed, during the course.
Style: 80% Lecture, 10% Discussion.
Grading: 60% mid exam, 40% final exam.
Exam Format: Individual take home quiz

PHYS 5701 Solid-State Physics for Engineers and Scientists
4 credit(s); prereq Grad or advanced undergrad in physics or engineering or the sciences;
Instructor: Kamenev, Alex
Description: The purpose of this course is to familiarize the student with the methods, techniques, and main phenomenology of solid state physics. It is intended for a very varied audience: electrical and mechanical engineers, materials scientists, chemists, etc. Prerequisites are flexible, but they include either senior or graduate student status in an engineering or scientific area. In 5701 we plan to cover the first nine chapters of Kittel, and special topics as time allows. Examples of topics that will be covered in 5701 are: Drude model, lattices, diffraction, phonons, vibrations in solids, electronic states, energy bands, metals, semiconductors, and insulators.

PHYS 5950 Colloquium Seminar
S-N only, 1 credit(s); prereq [Grad student or advanced undergrad in physics], dept consent;
Instructor: Dahlgren, E Dan
Description: Student may contact the instructor or department for information.

PHYS 5994 Directed Research
1-5 credit(s), max credits 15, 15 repeats allowed; prereq Jr, dept consent;
Instructor: Crowell, Paul A
Description: Student may contact the instructor or department for information.

PHYS 8011 Quantum Field Theory I
3 credit(s); prereq 8001 or instr consent;
Instructor: Shifman, Mikhail A
Description: Student may contact the instructor or department for information.

PHYS 8100 Seminar: Problems of Physics Teaching and Higher Education
1 credit(s), max credits 3, 3 repeats allowed;
Instructor: Heller, Kenneth J
Description: Student may contact the instructor or department for information.

PHYS 8200 Seminar: Cosmology and High Energy Astrophysics
S-N only, 1 credit(s), max credits 6, 6 repeats allowed;
Instructor: Cushman, Priscilla Brooks
Description: Style: 70% Lecture, 20% Discussion, 10% Guest Speakers.
Grading: 100% written homework.

PHYS 8500 Plan B Project
4 credit(s); prereq instr consent; may be taken once to satisfy Plan B master’s project requirement; no cr toward PhD;
Instructor: Kubota, Yuichi
Description: Student may contact the instructor or department for information.

PHYS 8600 Seminar: Space Physics
S-N only, 1 credit(s), max credits 6, 6 repeats allowed;
Instructor: Lysak, Robert L
Description: Student may contact the instructor or department for information.

PHYS 8700 Seminar: Condensed Matter Physics
S-N only, 1 credit(s), max credits 6, 6 repeats allowed;
Instructor: Kakalios, James
Description: Student may contact the instructor or department for information.

PHYS 8702 Statistical Mechanics and Transport Theory II
3 credit(s); prereq 8701 or instr consent;
Instructor: Valls, Oriol T
Description: Course Description: Equilibrium properties of
Physiology
6-125 Jackson Hall

PHSL 3051 Human Physiology
4 credit(s); prereq [Biol 1009 or 1 yr college bio], 1 yr college chem;
Instructor: Anderson,Lisa Carney
Description: For pre-allied health sciences majors. How major organ systems function (nerve, muscle, circulation, respiration, endocrine, renal, gastrointestinal, energy metabolism). Three lecture sessions and one two-hour lab per week.

PHSL 3095 Problems in Physiology
1-5 credit(s), max credits 20, 20 repeats allowed; prereq concurrent enrollment in college physiology, instr consent;
Instructor: Barnett,Vincent A
Description: Student may contact the instructor or department for information.

PHSL 4021 Advanced Physiology and Bioengineering: Bionic Human
A-F only, 3 credit(s); prereq 3061 or 3063 or 5061 or instr consent;
Instructor: Levitt,David George
Description: This course uses the theme of the The six million dollar man to develop an in depth understanding of the physiology of different organ systems. Comparison of human organs versus advanced synthetic devices provides new insights into the complexity of human physiology. Some of the topics covered include: artificial heart, kidney, pancreas and lung; comparison of the eye versus the digital camera; and artificial intelligence of pattern recognition. The course is strongly web based. The emphasis is on student reading and analysis of current literature. Students will be required to submit a short analytical paper each week. The papers will be read and discussed on line by the instructor and the entire class. The course is designed for upper division and graduate biology and engineering students and the only prerequisite is physiology 3061 or equivalent.
Style: 100% Lecture.
Grading: 80% reports/papers, 10% in-class presentation, 10% class participation.

PHSL 4095 Honors Problems in Physiology
A-F only, 2-4 credit(s), max credits 4, 1 repeat allowed; prereq Concurrent registration is required (or allowed) in 3061, physiology honors candidate, approval of director of undergrad studies in physiology;
Instructor: Barnett,Vincent A
Description: Student may contact the instructor or department for information.

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 5094 Research 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 5095 Problems 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 5101 Human Physiology
5 credit(s); prereq Grad student;
Instructor: Wangensteen,Douglas
Description: This course is taken by physical therapy and graduate students and is taught concurrently with the physiology course for first year medical students (PHSL 6101). 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 5101 and PHSL 6101. It is assumed that students in PHSL 5101 will have, or be able to acquire, a minimal background in anatomy, histology and biochemistry. Because this course follows the medical school schedule, it begins in the first week in January and ends the first week in May.
Style: 90% Lecture. 5% Laboratory, 5% Demonstration.
Grading: 25% mid exam, 38% final exam, 25% quizzes, 12% written homework.

PHSL 5116 Advanced Clinical Physiology II 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: Koscheyev,Victor S
Description: Student may contact the instructor or department for information.
for information.

PHSL 5356 Research: Humans in Extreme Environments 1-5 credit(s), max credits 25, 5 repeats allowed; prereq [3061 or equiv], Inst instr consent; Instructor: Koscheyev, 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 6051 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.

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: 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; Instructor: Silllow, Carolyn D Description: Student may contact the instructor or department for information.

Plant Biological Sciences 250 Biological Sciences

PHIO 1212 Plants and Society 3 credit(s); prereq Intended for non-biological sciences majors; Meets CLE req of Environment Theme; Instructor: Charvat, Iris D Description: This class explores the ways that plants have been used by human societies throughout history. It is designed for undergraduate non-majors and includes basic information about plant structure, function, and reproduction. Topics discussed in this course include: the origins of agriculture and early-cultivated plant species, ecosystem destruction and restoration, and diversity. As part of the diversity study, in depth examination of plant groups such as medicinal plants, fiber plants, herbs and spices, poisonous and allergy plants, fungi, beverage plants, and psychoactive plants are investigated. Although not specifically intended as a laboratory course, Plant Biology 1212 gives the students direct experience with plants through frequent demonstrations in lectures using flowers, fruits and various plants products. Six of the scheduled class periods consist of trips to the greenhouses on the St. Paul campus to observe plant adaptations to diverse habitats and learn to identify some common cultivated species and their uses. The number of class sessions held in the greenhouse has increased because students are very positive about the greenhouse exercises, an active way to learn the material. Written assignments include summaries of plant information papers, selected journal articles, and greenhouse worksheets. Style: 45% Lecture, 5% Film/Video, 10% Discussion, 22% Laboratory, 8% Small Group Activities, 5% Student Presentation, 5% Demonstration. Time spent at the greenhouse in St. Paul is counted as laboratory. Grading: 15% mid exam, 15% final exam, 10% reports/papers, 15% additional semester exams, 10% in-class presentation, 5% class participation, 30% laboratory evaluation. Laboratory Evaluation: Worksheets will be used in the greenhouse sessions and will consist of fill-in-the-blank or short answer questions. Worksheets will generally be due at the next class session. Exam Format: Exams will consist of a mixture of multiple choice, matching exercises, short answer and short essay. Students will be responsible on the exams for the plants and plant information studied in the greenhouse.

PHIO 4511 Flowering Plant Diversity 3 credit(s); prereq BIOL 1001 or 1009 or 1009H or 2002; Credit will not be granted if credit has been received for: PHIO 4811; Instructor: Weiblen, George D Description: Flowering plants are a fascinating and integral part of the diversity of life on earth. The study of systematics provides a framework for understanding the origin and evolutionary relationships of this diversity. The course has two main objectives: learning to recognize major groups of flowering plants and introducing the theory and practice of phylogenetic systematics. New insights on plant evolutionary history provided by DNA sequences will be presented in a revised system of flowering plant classification. Lectures, laboratory exercises, and field trips integrate this new approach with broader topics including morphology, development, ecology, evolution, conservation, and ethnobotany. Style: 30% Lecture, 10% Discussion, 30% Laboratory, 5% Student Presentation, 5% Demonstration, 10% Field Trips, 5% Guest Speakers, 5% Web Based. Field trips Grading: 20% mid exam, 40% final exam, 15% quizzes, 10% class participation, 15% laboratory evaluation. Exam Format: Short answer, essay

PBS 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 critiques 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 4994 Directed Research**

S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed; prereq instr consent; Instructor: Giese,Florence K
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: Springer,Nathan Michael
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: McLaughlin,David J
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: Marks,M David
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: Biesboer,David 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: Lefebvre,Paul 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: McLaughlin,David J
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: Springer,Nathan Michael
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: Biesboer,David 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: Biesboer,David 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: Giese,Florence K
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: Biesboer,David 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: Giese,Florence K
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: Giese,Florence K
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: Giese,Florence K
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: Silllow, 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: 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: Vanden Bosch, 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: Gray, William 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: 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: Sanderfoot, Anton  
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 4994 Directed Research**  
S-N only, 1-6 credit(s), max credits 42, 7 repeats allowed;  
prereq instr consent;  
Instructor: Weinig, Cynthia  
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: Jin, Yue  
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: Glaebrook, Jane  
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: Katajir, Fumiaki  
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: 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: Secondary Metabolism: Good things made in Plants**  
1 credit(s), max credits 6, 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: MPGI: The Importance of Fungal Biology/Interactions**  
1 credit(s), max credits 6, 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.

**Style:** 40% Lecture, 2% Film/Video, 3% Discussion, 50% Laboratory, 3% Small Group Activities, 2% Field Trips.

**Grading:** 30% mid exam, 25% final exam, 5% quizzes, 4% attendance, 36% laboratory evaluation. There are two mid semester exams - each worth 15% Laboratory evaluation - worksheets, 26%; exam 10%

**Exam Format:** Exams will be a mixture of; multiple choice, matching, short answer and essay questions The lab exam will be short answer based on observations of lab materials

**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, 30% laboratory evaluation, 10% problem solving.

**Exam Format:** Short answer, Short essay

**PLPA 4000 Plant Pathology Practicum**
1 credit(s), max credits 5, 5 repeats allowed; prereq 2001, [3001 or introductory plant pathology];
Instructor: MacDonald, David H

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

**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:** 50% mid exam, 10% special projects, 30% class participation, 10% problem solving.

**Exam Format:** Short answer, short essay

**PLPA 5103 Plant-Microbe Interactions**
3 credit(s);
Instructor: Zeyen PhD, Richard John

**Description:** Plants and microbes evolved together, and the broad range of their interactions is just beginning to be understood. In fact, many plants and microbes cannot survive without each other. Their interactions range from mutually beneficial to harmful. In this course students learn the basic biology of several important interactions and explore their physiological and molecular bases. Topics include reciprocal recognition, signal transduction, beneficial reactions, defense and defense suppression strategies, and diseases. Selected examples important to ecological stability, economics, plant-microbe theory and genetic engineering are emphasized. Students engage in active learning. Graduate students majoring in Plant Pathology should take this course as PLPa 8103.

**Polish**
214 Nolte Center

**PLSH 3002 Intermediate Polish**
5 credit(s); prereq 3001 or equiv;
Instructor: Polakiewicz, Leonard Anthony

**Description:** This course covers the main aspects of advanced Polish and emphasizes proficiency in all four language skills: listening, reading, speaking, and writing. Two textbooks are
used: Alexander Schenker's, 'Fifteen Modern Polish Short Stories,' and Leonard Polakiewicz's, 'Intermediate Polish: A Cultural Reader with Exercises.' The textbooks are accompanied by audio tapes. As part of the four semester Polish language sequence, the course is designed to satisfy CLA language proficiency requirements. Target audience includes: undergraduate and graduate students, particularly those interested in East/Central European Area Studies, Slavic Studies and potentially seeking employment in Eastern Europe.

**Style:** 30% Lecture, 10% Film/Video, 30% Discussion, 10% Laboratory, 20% Small Group Activities. Instructor-guided oral exercises

**Grading:** 25% final exam, 35% quizzes, 30% class participation, 10% other evaluation. final oral exam

**Exam Format:** oral presentations, fill-ins, translation--oral and written

### Political Science

**1414 Social Sciences Tower**

**POL 1001 American Democracy in a Changing World**

4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;  
Instructor: Mohammad-Zadeh,Kati  
Description: The study of American Democracy begins with an examination of the foundations, structure and functions of American government. This course is not only designed to introduce you to the study of political science, but to help you become more informed citizens. Some of the core questions we will be addressing are: What is the relationship between government and the people? and does it live up to the ideal of democracy? What are the fundamental characteristics of American governmental and political institutions and the people who run them? Why is any of this significant to our lives? The study of American political science involves knowledge of history, public policy, economics, sociology and the law. As such, we will go through the course taking care to develop full and robust narratives for the development of American government. We will learn that causation is rarely a singular path and that structural and policy decisions rarely have only intended consequences. I have purposefully chosen our textbooks for this course because they contain a great deal of political and historical context for the events and institutions we discuss. This should be extremely helpful to your overall understanding of the development of constitutional government.

**POL 1002 Global Politics**

4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;  
Instructor: Shoemaker,Scott M  
Description: Student may contact the instructor or department for information.

**POL 1025 Global Politics**

4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;  
Instructor: Butenhoff,Linda Joanne  
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: Daniels,Debra Lee  
Description: This is an introductory course in political theory so no prior knowledge is expected, though the terms liberal and conservative? no doubt seem familiar. The range of ideas and political concepts don't fit neatly into these two categories so this course is designed to both broaden and deepen our understanding of the ideas that influence our politics. We will consider ideas such equality, liberty, the conception of rights and justice. The readings include thinkers from various periods of history who grappled with these ideas and contributed to the formation of what we often call liberal or conservative today as well as other ideologies such as Marxism, pragmatism, libertarianism, feminism.

**Style:** 80% Lecture, 20% Discussion.

**POL 1202 Political Ideas and Ideologies**

4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;  
Instructor: Boyer,Eric Matthew  
Description: Student may contact the instructor or department for information.

**POL 3070 Faculty-Supervised Individual Field Work**

A-F only, 1-13 credit(s), max credits 13, 1 repeat allowed; prereq instr consent, dept consent;  
Instructor: Soper,Paul W  
Description: Students conducting field research on politics or government may receive credit for academic work completed in association with their research. Typically students will write a substantial research paper (20 pages or more) that incorporates their field research into the political science literature on their topic. Students must arrange for credit no later than the end of the first week of the semester. To enroll for this course, contact the instructor.

**Style:** Fieldwork/Participant-Observation

**Grading:** 100% reports/papers.

**POL 1019 Indigenous Peoples: A Global Perspective**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: AMIN 1002; Meets CLE req of

**POL 3080 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 the 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 government agencies, as well as political parties, campaign organizations, 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 or instr consent; Meets CLE req of Mathematical Thinking Core;  
**Instructor:** Walsh, Dominique A  
**Description:** Student may contact the instructor or department for information.

**POL 3210 Practicum**  
2 credit(s), max credits 12, 6 repeats allowed; Meets CLE req of Citizenship/Publ Ethics Theme;  
**Instructor:** Werner, Linnette  
**Description:** The field experience is an internship-based course that encourages civic engagement and provides practical leadership situations for students to apply the theories and concepts learned in the previous two leadership courses. Students will identify three goals, competencies or skills they wish to further develop during the semester. Students will serve as Public Achievement coaches at St. Bernard’s School in St. Paul where the middle and high school students are getting involved in constructing projects around issues in their school/community. In the process, they are learning about leadership, public work, and public life. Coaches help with the projects and facilitate group learning. The experience is intended to provide undergraduate students with an exciting opportunity to integrate theoretical reflection on leadership, social change, and civic engagement. The coach’s role will be to help younger citizens think and speak more clearly about the political world (in a language populated with concepts concerning public work, power, freedom, interests, and problem-solving) and help students cultivate the leadership skills of deliberation, negotiation, teamwork, and public speaking. Through this work, students in the field experience will learn about their own leadership styles, skills, and goals.

**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 others 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 democracy, the abolitionists, defenders of slavery, suffragettes, social Darwinists, Progressives, Feminists and the civil rights movement. These arguments have shaped and continue to influence our thinking about American government and its social institutions. As we read these arguments, I will help to place them into 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:** 60% Lecture, 10% Film/Video, 30% Discussion.  
**Grading:** 30% final exam, 50% reports/papers, 10% quizzes, 10% class participation.  
**Exam Format:** Short answer

**POL 3235W Democracy and Citizenship**  
3-4 credit(s), max credits 4, 1 repeat allowed; prereq 1201 recommended; Meets CLE req of Citizenship/Publ Ethics Theme;  
**Instructor:** Lomonaco, Jeffrey D  
**Description:** Throughout much of the world today, democracy is the only defensible political system, which is quite a departure from how things were even in the recent past. But what do we mean by democracy? The word itself means rule of the people, but how is such rule to be realized, especially in a system of representative and not direct democracy? And what is the value of democracy? Is democracy simply a system for controlling elected representatives, or is it something more? Is it in fact only a political system, or is democracy rather an entire culture and way of life? And how are we to think about some of the characteristic problems in a democracy, like the role of majority rule, and the consequent tensions between majorities and minorities whose rights must be protected. What is the role of voting and other forms of citizenship participation in a democracy? This writing-intensive course examines competing theories of democracy in order to address these and other questions, principally though not exclusively in the context of the United States. Though we will look back to some of the classic formulations of the value and disquiet of democracy from the eighteenth century - the Federalist papers and Rousseau - the vast majority of readings will be drawn from twentieth-century sources. The last part of the course will be a sustained examination of the question posed by the recent book by the great democratic theorist Robert Dahl: How Democratic is the American Constitution?  
**Style:** 65% Lecture, 35% Discussion.  
**Grading:** 20% final exam, 75% reports/papers, 5% class participation.  
**Exam Format:** Short answer and essay

**POL 3308 Congressional Politics and Institutions**  
3 credit(s); prereq 1001 or 1002 or instr consent; Credit will not be granted if credit has been received for: POL 4308;  
**Instructor:** Roberts, Jason Matthew  
**Description:** This course is intended as a broad survey of the legislative branch of the American government. In this course we will discuss the origins and development of the U.S. Congress, congressional elections, the committee system, legislative process, the role of political parties, and inter-branch relations. Particular attention will be given to congressional elections, as well as current political and scholarly controversies such as budgetary politics, party effects, and campaign finance reform.  
**Style:** 60% Lecture, 10% Discussion.  
**Grading:** 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.  
**Exam Format:** Short answer + essay

**POL 3477 Political Development**  
3-4 credit(s), max credits 4, 1 repeat allowed; prereq 1054 or instr consent; Meets CLE req of Social Science Core;  
**Instructor:** Caraway, Teri Lynn  
**Description:** How do we explain the vast disparities of wealth between North and South? 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 contentious answers to these difficult but important questions. We will do so not only through discussions of different explanations of development and underdevelopment, but also through examining these issues concretely in several countries and through discussions of contemporary "hot topics" such as AIDS and the resource curse.  
**Style:** 35% Lecture, 10% Film/Video, 40% Discussion, 15% 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

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function as four midterms. The final exam is not cumulative.

POL 3757 Political Psychology of Elite Behavior
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ

Instructor: Sullivan, John L

Description: In this course, we will examine the intersections of elite political decision-making, personality and social psychology. We will explore the usefulness of psychological theories for investigating the role of the individual, of group processes, and of the political context in decision-making by political leaders, particularly U.S. Presidents. We will examine how the personalities of political leaders affect the type and quality of their decision-making, how group processes can degrade or enhance good decision-making, how decision-makers employ historical analogies and broader metaphors when they decide the fate of nations. We will examine these general forces by conducting case studies of Presidential decision making, including the Bay of Pigs, Cuban Missile Crisis, Watergate, the Iranian Hostage Crisis, the Iran-Contra affair, the Gulf War, etc.

Style: 65% Lecture, 15% Film/Video, 20% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: Short answer and medium length essay

POL 3835 International Relations
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Lobasz, Jennifer K

Description: This course is meant to provide the conceptual and theoretic means for analyzing issues, processes, and events in world politics. Emphasis is placed on developing usable knowledge of various theories for analyzing cooperation and conflict at the international and global levels in the contemporary era. Specific topics covered by the class will include: terrorism, nuclear weapons, hegemony, multilateral organizations, globalization, economic development, democracy promotion, human rights, nationalism, and the environment. The principal objective of this course is for students to develop an appreciation of the ways in which various theoretical perspectives lead to different understandings of the structures and practices of world politics. Each of the perspectives that we address in this course – realism, liberalism, constructivism, and a variety of critical social theories – accepts the assumption that the many and varied interactions among states and non-state actors in the global arena are vital elements of our world. However, in interpreting these many and varied forms of world politics, each of the theories offers not only a unique accounting of why international relations take the form they do, but also distinct guidance about what international political activity should be. Therefore, this course will explore how each perspective explains events that occur in the arena of global politics; it also considers how adherents of each perspective think international actors should act in this arena. That is, we will investigate both the explanatory insights and the normative political implications that distinguish each theoretical perspective. Through the highlighting of such theoretical differences, the course is intended to provide the means for students to develop their own theoretically informed analyses of issues in contemporary international relations.

Style: 60% Lecture, 40% Discussion.

POL 3835 International Relations
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

Instructor: Aaltola, Mika Petteri

Description: The main aim of the course is for students to develop an understanding of the ways in which various theoretical perspectives interact with different practices and beliefs concerning world politics. The main themes in the international relations thought have concentrated on the worry and hope concerning human existence. The prime concern has been the survival and freedom of a political actor ? ranging from individuals, institutions, states to communities. The aim is to appreciate how various theoretical perspectives generate differing views and analyses of such concern. Each of the perspectives that we review in this course – idealism, liberalism, realism, behavioralism, traditionalism, radicalism, constructivism, and critical theory – have the same conceptual space. Namely, they are best understood as different ways of thinking about and interacting with each other. This tense space of thought is not relevant only from a theoretical perspective. The various coherent models of worry and hope play an important role in the practical world politics. They do not only explain and describe how things happen but offer guidance to how things should be. Theoretical orientations to world politics contain both explanatory insights and normative political implications. We will review both of these dimensions of each of the theoretical perspectives. Third important dimension is the position of each of the schools of thought in the historical pedigree of International Relations. Namely, the historical study of the history and the development of the discipline in the discipline of IR, we will give identity and meaning to the different orientations. We will review many contemporary issues in world politics. This review of current affairs illuminates the theoretical issues because the coherent schools of thought are closely intertwined with the praxis of world politics.

Style: 80% Lecture, 20% Discussion.
Grading: 20% final exam, 60% reports/papers, 20% other evaluation. lecture diary
Exam Format: short essays

POL 3873V 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: Sikkink, Kathryn A

Description: Should nations intervene in other countries to prevent famine or ensure human rights? Under what conditions is war justified? On what principles should immigration policies be based? Who should pay to avoid global environmental problems? Should wealthy states provide foreign aid or forgive the debts of poor countries? Is the possession of nuclear weapons morally and legally acceptable? What do we mean by global citizenship? How does an understanding of global citizenship influence how we answer ethical questions in international politics? This course will introduce you to different traditions of moral, legal, and political thought to provide you with the tools to make reasoned judgments about these kinds of difficult political problems in global politics. Case studies of ethics in intervention, war, weapons, foreign aid, environmental practices, and human rights are used to examine global ethical responsibilities of individual citizens and public officials. We will discuss the effectiveness of transnational social movements in influencing policy at domestic/international levels. This course will introduce the CLE ethics and citizenship requirement. In it, you will both study ethics and citizenship in the abstract and you will apply these abstract frameworks to concrete instances in international politics. The course also meets the international perspectives CLE requirement. We will not only study a range of cases from different parts of the contemporary world, but will also compare similarities and differences in ethical traditions and ideas about citizenship in different regions of the world.

Style: 40% Lecture, 15% Film/Video, 20% Discussion, 20% Small Group Activities, 10% Student Presentation.
Grading: 30% mid exam, 10% reports/papers, 10% special projects, 40% reflection paper, 10% class participation.
Exam Format: essay questions and short answers

POL 4210 Topics in Political Theory: French Politics and Protest

Instructor: Sullivan, John L

Description: This course is designed to provide the conceptual and praxis of world politics

Style: 40% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities, 10% Student Presentation.
Grading: 30% mid exam, 10% reports/papers, 10% special projects, 40% reflection paper, 10% class participation.
Exam Format: essay questions and short answers

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multiculturalism and identity politics. This course will examine these events, the political and ethical challenges they raised, and the intellectuals who shaped the ensuing public debates. It will draw on historical media (e.g. posters, art, film), and philosophical texts to explore contemporary France in its century of politics and protest. Texts range from the anthropological investigations of Claude Levi-Strauss, to the plays of Jean-Paul Sartre, to the philosophy of Michel Foucault.

Style: 60% Lecture, 40% Discussion.

POL 4310 Topics in American Politics: Interest Grps,Soc Movements, & Pol of Race, Class, Gen
3 credit(s), max credits 9, 3 repeats allowed; prereq 1001 or equiv or instr consent;
Instructor: Strolovitch, Dana

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.

Course readings include both empirical work about particular movements and theoretical treatments of key issues. 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 media in interest group and movement politics; and about the implications for interest groups and social movement politics of developments such as globalization, the war on terror, and campaign finance reform; about the differences between interest groups and social movements; 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 all aspects of the class.

Consequently, in addition to addressing substantive issues, we will also engage writing-related issues. As such, course materials include models of exemplary political science writing and guides to writing, which we will discuss in class. We will also devote a portion of several sessions to short workshops on issues such as style and usage, research design, the use of evidence, critical thinking, and the differences among various forms of expository writing.

Style: 30% Lecture, 5% Film/Video, 40% Discussion, 20% Small Group Activities, 2% Student Presentation, 2% Guest Speakers.

Grading: 20% mid exam, 20% final exam, 25% reports/papers, 5% in-class presentation, 20% class participation, 10% other evaluation.

POL 4310 Topics in American Politics: Space, Identity, and Agency in Urban America
3 credit(s), max credits 9, 3 repeats allowed; prereq 1001 or equiv or instr consent;
Instructor: Isoko PhD, Zenzele

Description: This is an interdisciplinary course that critically examines the activisms of people of color in urban America. This course is comprised on writings that have emerged from feminist studies, queer studies, political science, urban anthropology, and political geography. 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. The 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.

Style: This course will take a seminar format. Rather than lecturing, the instructor will facilitate a discussion that is guided by the interests and developing expertise of all seminar participants.

Grading: 20% final exam, 30% reports/papers, 30% special projects, 20% class participation, unannounced in-class riting assignments (quizzes) will be given to assess student level of preparation and to reward/penalize students accordingly.

Exam Format: essay

POL 4310 Topics in American Politics:
Diversity & Multiculturalism: Intergroup Relations
3 credit(s), max credits 9, 3 repeats allowed; prereq 1001 or equiv or instr consent;
Instructor: Molina, Ludwin E

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

POL 4410 Topics in Comparative Politics: Politics of Family, Sex, & Children
3 credit(s), max credits 6;
Instructor: Kellner, Daniel R

Description: Fights about family, sex, and children are some of the harshest in contemporary politics. Topics in this course include: (1) Battles over who can make a family: same-sex marriage, teenaged childbearing, polygamy. (2) Children: the Western ideology of childhood, the realities of third-world childhood, child soldiers, child prostitution, human trafficking, sex-selective abortion & the "missing girls" problem. (3) Sex: power in sexual relationships, sexual elements of political ideologies, sexual freedom & the state. (4) Finances and family survival: social support for families, childcare, family leave, finance, taxation, bankruptcy. (5) Electoral politics: families and electoral behavior, campaigns and manipulation of images of the family.

Style: 80% Lecture, 10% Film/Video, 30% Discussion.

Grading: 15% mid exam, 15% final exam, 60% reports/papers, 10% 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: Gingrich, Jane Rebecca

Description: This course provides an introduction to the history, politics, and controversies of contemporary European politics. The goals of the course are threefold. Firstly, to prepare students to be educated consumers of European politics ? to be able to understand contemporary debates in the European press and relate these to the varying historical experiences of European countries. Secondly, to develop and test theories about important aspects of social life on the rich panoply of European cases. European countries display an astounding variation in their political institutions and their historical experiences with political regimes as diverse as fascism, communism, socialism, and liberal democracy. Thirdly, to examine how the different political systems of Europe condition how they respond to globalization, rising immigration and changing social values. In this course, we will focus specifically on Britain, France, Italy and Germany, with further discussion of the smaller European countries.

POL 4463 The Cuban Revolution Through the Words of Cuban Revolutionaries
3 credit(s); prereq 1025 or 1054 or equiv or instr consent;
Instructor: Nimtz Jr, August H

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

POL 4465 Southeast Asian Politics
3 credit(s);
Instructor: Caraway, Teri Lynn

Description: Comprised of eleven countries, Southeast Asia covers a wide geographical region stretching from India to China. With a rich endowment of natural resources, a dynamic manufacturing base, and a strategic location on China's southern flank, the region has come to play an increasingly important role in the political and economic affairs of the globe. Culturally and ethnically diverse, hundreds of languages are spoken in the region, and the religions practiced include Buddhism, Catholicism, Hinduism, and Islam. Although all of the countries in Southeast Asia have exclusionary political systems, they...
range from the faintly democratic through civilian authoritarianism to military authoritarianism. Because the region is so diverse, the introduction must necessarily be incomplete. Readings and lectures will focus on seven countries: Burma, Indonesia, Malaysia, the Philippines, Singapore, Thailand, and Vietnam. The course centers on two main themes: comparing the countries in the region with respect to political change, political institutions, and economic development; and the effects of and lessons to be learned from US involvement in the region (the Vietnam War and the counter-terrorism war). By the end of the course you will have acquired not only empirical knowledge about these countries and events but also theoretical tools to analyze political institutions, political change, and economic development.

**Style:** 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.

**Grading:** 29% mid exam, 29% final exam, 29% reports/papers, 13% class participation. I use a point system, with 100 points each for the midterm, final, and research paper and 50 points for class participation.

**POL 4479 Latin American Politics**

3 credit(s), max credits 4, 1 repeat allowed; prereq 1054 or 3051 or non-pol sci grad or instr consent; Credit will not be granted if credit has been received for: POL 5479;

**Instructor:** Hilbink, Lisa

**Description:** The course examines Latin American politics by introducing historical and contemporary patterns of democracy and development. It aims to help students understand the origins and effects of Latin America's "dual transitions" to political democracy and market-led economics in the 1980s-90s, analyzing the continued challenges to the deepening of democracy and to sustainable and equitable economic growth in the region. The course presents competing theoretical approaches and discusses them in the context of the political trajectories of four major Latin American cases: Argentina, Chile, Mexico, and Venezuela. Readings on other countries will occasionally be assigned. The course offers senior paper credit for Political Science majors. It is NOT, however, a writing intensive course.

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 20% mid exam, 25% final exam, 35% reports/papers, 20% class participation.

**Exam Format:** Combo of multiple choice, IDs, and essay

**POL 4489W Citizens, Consumers, and Corporations**

3 credit(s); Meets CLE req of Writing Intensive;

**Instructor:** Caraway, Teri Lynn

**Description:** Corporations are among the most powerful actors in the global political economy. They employ millions of people, produce a variety of goods, and have massive effects on the ecological and social environments in which they do business. How do ordinary people act in order to hold corporations accountable for the effects that their activities have on communities and individuals? This course focuses on two ways that people have mobilized to counter corporate power—as citizens and as consumers. When people mobilize as citizens, they put pressure on corporations through the political system—e.g. through mass protests, lobbying politicians, and pursuing claims through the courts. When people mobilize as consumers, they use the power of their purchasing decisions to encourage corporations to change their behavior. We will explore these different modes of action through an examination of Wal-mart, branding and corporate social responsibility, labor rights, the environment, fair trade, water privatization, human rights, and immigrant workers in the United States.

**Style:** 40% Lecture, 15% Film/Video, 30% Discussion, 15% Small Group Activities.

**Grading:** 20% final exam, 60% reports/papers, 20% class participation. Students will write two short essays of 4-5 pages and one research paper, 6-8 pages in length.

**Exam Format:** The final exam will be an essay exam in which students will answer one question from a list of two or three questions.

**POL 4502W The Supreme Court, Civil Liberties, and Civil Rights**

3 credit(s); prereq 1001 or 1002 or equiv or [non-pol sci] grad major or instr consent ; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;

**Instructor:** Johnson, Timothy Russell

**Description:** This course deals with civil liberties in the United States and how the United States Supreme Court decides which rights and liberties get which protections, at which times. Specifically, our focus will be on the First Amendment, and the Right to Privacy. Special emphasis will be placed on how the Supreme Court defines, establishes, and protects these liberties through its interpretation of the Constitution.

**Style:** 20% Lecture, 80% Discussion.

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

**Exam Format:** Exam – Hypothetical Questions

**POL 4767 Public Opinion and Voting Behavior**

3 credit(s); prereq 1001 or equiv or instr consent ; Credit will not be granted if credit has been received for: POL 5767;

**Instructor:** Goren, Paul Nurullah

**Description:** This course focuses on how citizens reason about politics; the nature, causes, and consequences of collective public opinion; and the extent to which political reasoning and collective opinion are rational. During the term we shall address the following questions: (1) what is public opinion and how is it measured; (2) how stable is public opinion; (3) what are the sources of public opinion; (4) how do citizens formulate their policy preferences and presidential vote choices; (5) what role do family values play in shaping public opinion; and (6) how are public opinion and public policy related.

**Grading:** Exam Format: 20% class participation.

**style:** 60% Lecture, 20% Film/Video, 20% Discussion.

**Grading:** 55% final exam, 35% reports/papers, 10% class participation.

**Exam Format:** Exam – Hypothetical Questions

**POL 4810 Topics in International Politics and Foreign Policy: Religion and International Relations**

3 credit(s), max credits 6;

**Instructor:** Aaltola, Mika Petteri

**Description:** This course examines the link of Western world politics and political religion. It examines the polito-religious cultural resources of American foreign policy. How are they used in foreign policy? What are the central spectacles? What are the performers of these tense dramas? The course will review the cultural histories of important polito-religious practices to develop better insights on contemporary world politics. The book contains. The state of research is still patchy and underdeveloped. Certain research areas have been highlighted at the expense of some other relevant themes. Much less attention is paid to role of religion in the Western politics. The course tries to gap this research void in the studies of world politics. The course tries to seek answers on how contemporary world politics evokes deeply held values, beliefs and myths. What are the central rites of acknowledgement by which common truths are experienced? How such communities like ‘international community’ or ‘the coalition of the willing’ are maintained? How morality dramas and normative plays are used to reinvigorate the notion of the West?

**Grading:** Exam Format: 40% mid exam, 60% final exam, 20% class participation.

**Exam Format:** Exam – Hypothetical Questions

**POL 4867W United States Foreign Policy Toward the Middle East**

4 credit(s); prereq Jr or sr; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

**Instructor:** Sampson III, Martin Wright

**Description:** The relationship of the United States to the Middle East complex, and the Middle East region itself is complex. This course weaves these two topics together. In looking at US foreign policy toward Turkey, Iran, Israel, the Palestinians, and various Arab states including Iraq, the course seeks to deepen student awareness of Mideast politics as well as deepen student awareness of Mideast politics as well as deepen student
awareness of the historic debates, actions, and rationales for US engagement with the region. Many readings have Middle Eastern authors. The course devotes some attention to consideration of US foreign policy institutions as they affect and reflect cultural, economic, strategic, and social influences on US policy toward this region. The course meets the Dept of Political Science major project requirement. It was approved in early November as a writing intensive course. An underlying idea is that writing in the course help students better understand the readings and think more creatively about them and the course topic.

**Style:** 65% Lecture, 20% Discussion, 15% Small Group Activities.

**Grading:** 20% mid exam, 30% final exam, 40% reports/papers, 10% other evaluation.

**Exam Format:** one large essay question, short answer, and blank-d multiple choice. A study guide appears a week before each test.

**POL 4900V Honors: Senior Paper**

A-F only, 1 credit(s); prereq Honors, pol sr, instr consent; Instructor: Kellher,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.

(1) Students who in the summa cum laude track should not take 4900V, but 3110V for four credits.

**POL 4970 Individual Reading and Research**

1-4 credit(s), max credits 4, 1 repeat allowed; prereq instr consent, dept consent, college consent; Instructor: Fisher,Emily L

**Description:** This course will help students to learn basic research skills within the interdisciplinary field of political psychology. Students will work on an ongoing research project here at the University, will be required to write a research paper based on their research experience, and will give an oral presentation at the end of the semester.

This course is unique in several ways: (1) the time spent in class is minimal; (2) most of the work will be done outside of class with political psychology researchers; (3) the in-class teaching will be focused on practical research skills and each student will inform themselves of a different specialized area; and (4) you will be teaching each other about your research projects in a seminar format. This class is designed to guide students engaged in doing political psychology research, building upon previous experience in studying political science, psychology, or mass communication. Throughout the semester, students will be guided through several phases of the research process. Topics for discussion will include project selection, library skills, tips for research collaboration, conducting a literature review, and some basic data analytic skills. We will also focus on writing a research paper professionally, and oral presentation skills. The class format will also be flexible and responsive to particular problems students may face in doing their research over the course of the semester.

**POL 5308 Congressional Politics and Institutions**

3 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: POL 4308; Instructor: Roberts,Jason Matthew

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

**POL 5410 Topics in Comparative Politics: Politics of Family, Sex, & Children**

3 credit(s); prereq grad student; Instructor: Kellher,Daniel R

**Description:** Fights about family, sex, and children are some of the harshest in contemporary politics. Topics in this course include: (1) Battles over who can make a family: same-sex marriage, teenaged childbearing, polygamy. (2) Children: the Western ideology of childhood, the realities of the third world: childhood, child soldiers, child prostitution, human trafficking, sex-selective abortion & the "missing girls" problem. (3) Sex: power in sexual relationships, sexual elements of political ideologies, sexual freedom & the state. (4) Finances and family survival: social support for families, childcare, family leave, finance, taxation, bankruptcy. (5) Electoral politics: families and electoral behavior, campaigns and manipulation of images of the family.

**Style:** 60% Lecture, 10% Film/Video, 30% Discussion.

**Grading:** 15% mid exam, 15% final exam, 60% reports/papers, 10% class participation.

**POL 5461 European Government and Politics**

4 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: POL 4461W; Instructor: Gingrich,Janne Rebecca

**Description:** This course provides an introduction to the history, politics, and controversies of contemporary European politics. The goals of the course are threefold. Firstly, to prepare students to be educated consumers of European politics ? to be able to understand contemporary debates in the European press and relate these to the varying historical experiences of European countries. Secondly, to develop and test theories about important aspects of social life on the rich panoply of European cases. European countries display an astounding variation in their political institutions and their historical experiences with regimes as diverse as fascism, communism, socialism, and liberal democracy. Thirdly, to examine how the different political systems of Europe condition how they respond to globalization, rising immigration and changing social values. In this course, we will focus specifically on Britain, France, Italy and Germany, with further discussion of the smaller European countries.

**POL 5465 Southeast Asian Politics**

3 credit(s); Instructor: Caraway,Teri Lynn

**Description:** Comprised of eleven countries, Southeast Asia covers a wide geographical region stretching from India to China. With a rich endowment of natural resources, a dynamic manufacturing base, and a strategic location on China's southern flank, the region has come to play an increasingly important role in the political and economic affairs of the globe. Culturally and ethnically diverse, hundreds of languages are spoken in the region, and the religions practiced include Buddhism, Catholicism, Hinduism, and Islam. Although all of the countries in Southeast Asia have exclusionary political systems, they range from the faintly democratic through civilian authoritarianism to military authoritarianism. Because the region is so diverse, the introduction must necessarily be incomplete. Readings and lectures will focus on seven countries: Burma, Indonesia, Malaysia, the Philippines, Singapore, Thailand, and Vietnam. The course centers on two main themes: comparing the countries in the region with respect to political change, political institutions, and economic development; and the effects of and lessons to be learned from US involvement in the region (the Vietnam War and counter-terrorism since 9/11). By the end of the course you will have acquired not only empirical knowledge about these countries and events but also theoretical tools to analyze political institutions, political change, and economic development.

**Style:** 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.

**Grading:** 29% mid exam, 29% final exam, 29% reports/papers, 13% class participation. I use a point system, with 100 points each for the midterm, final, and research paper and 50 points for class participation.

**POL 5479 Latin American Politics**

3-4 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: POL 4479; Instructor: Hilbink,Lisa

**Description:** The course examines Latin American politics by introducing historical and contemporary patterns of democracy and development. It aims to help students understand the origins and effects of Latin America's "dual transitions" to political democracy and market-led economics in the 1980s-90s, analyzing the continued challenges to the deepening of
democracy and to sustainable and equitable economic growth in the region. The course presents competing theoretical approaches and discusses them in the context of the political trajectories of four major Latin American cases: Argentina, Chile, Mexico, and Venezuela. Readings on other countries will occasionally be assigned. The course offers senior paper credit for Political Science majors. It is NOT, however, a writing intensive course.

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 20% mid exam, 25% final exam, 35% reports/papers, 20% class participation.

**Exam Format:** Combo of multiple choice, IDs, and essay

**POL 5502 Supreme Court, Civil Liberties, and Civil Rights**
3 credit(s); prereq credit will not be granted if credit received for: 4502; 1001 or 1002 or equiv or non-pol sci grad student or instr consent;

Instructor: Johnson, Timothy Russell

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

**POL 5767 Public Opinion and Voting Behavior**
3 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: 4767;

Instructor: Goren, Paul Nurullah

**Description:** This course focuses on how citizens reason about politics; the nature, causes, and consequences of collective public opinion; and the extent to which political reasoning and collective opinion are rational. During the term we shall address the following questions: (1) what is public opinion and how is it measured; (2) how stable is public opinion; (3) what are the sources of public opinion; (4) how do citizens formulate their policy preferences and presidential vote choices; (5) what role do family values play in shaping public opinion; and (6) how are public opinion and public policy related.

**POL 5810 Topics in International Politics and Foreign Policy: Religion and International Relations**
3 credit(s), max credits 6; prereq := 4810; grad student;

Instructor: Aaltola, Mika Petteri

**Description:** The course examines the link of Western world politics and political religion. It examines the polito-religious cultural resources of American foreign policy. How are they used in foreign policy? What are the central spectacles? What are the performers of these tense dramas? The course will review the cultural histories of important polito-religious practices to develop better insights on contemporary world politics. The book examines political imagination and, especially, the role of cultural memory. The course draws from the analysis of spectacles of power ? e.g. the invasion of Afghanistan and Iraq. These spectacles are perceived to be constituted by a variety of religious experiences that is specific to the Western world politics. The general theme of the course concerns the relationship between religion and world politics. Judging from the recent research on the issue, the topic is very broad and hard to contain. The state of research is still patchy and underdeveloped. Certain research areas have been highlighted at the expense of some other relevant themes. Much less attention is paid to role of religion in the Western politics. The course tries to gap this research void in the studies of world politics. The course tries to seek answers on how contemporary world politics evokes deeply held values, beliefs and myths. What are the central rites of acknowledgement by which common truths are experienced? How such communities like ‘international community’ or ‘the coalition of the willing’ are maintained? How morality dramas and normative plays are used to reinvigorate the notion of the West?

**POL 8060 Research Proseminar in Political Science**
S-N only, 2 credit(s), max credits 8, 4 repeats allowed;

Instructor: Lomonaco, Jeffrey D

**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;

Instructor: Roberts, Jason Matthew

**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;

Instructor: Hilbink, Lisa

**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 8, 4 repeats allowed;

Instructor: Ansell, Benjamin William

**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; prereq 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; prereq ABD student in pol sci;

Instructor: Duvall, Raymond D

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

**POL 8101 Introduction to Political Science**
A-F only, 3 credit(s), max credits 4, 1 repeat allowed; prereq Grad pol sci major or instr consent;

Instructor: Freeman, John Roy

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

**POL 8105 Professional Development II**
S-N only, 1 credit(s), max credits 2; prereq Pol sci student, ABD, dept consent;

Instructor: Kellieher, Daniel R

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

**POL 8122 Positive Theory**
3 credit(s); prereq Grad pol sci major or instr consent;

Instructor: Roberts, Jason Matthew

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

**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 8125 Dynamic Analysis**
3 credit(s); prereq Pol sci grad student or instr consent;

Instructor: Freeman, John Roy

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

**POL 8160 Topics in Models and Methods: Bayesian Statistics**
1-3 credit(s), max credits 12, 4 repeats allowed; prereq Grad pol sci major or instr consent;

Instructor: Treier, Shawn A

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

**POL 8260 Topics in Political Theory: Political Representation**
POL 8305 Interest Groups and Social Movements
3 credit(s); prereq Grad pol sci major or instr consent; 
Instructor: Stirolovitch,Dara
Description: This course offers an overview of theoretical and empirical work on the role of interest groups and social movements in American politics and policy-making processes. Some of the topics that we will cover include: theories of interest group and social movement formation, maintenance and decline; how interest groups and social movements attempt to influence public policy; the impact of interest groups and social movements; and the effectiveness of interest groups and social movements as agents of democratic representation, particularly for marginalized groups. These topics reflect the multi-faceted and interdisciplinary subject area itself, which brings together behaviouralist and institutionalist focuses, empirical and normative approaches, qualitative, quantitative, and theoretical methods, and materials from a range of disciplines and subfields in Political Science, Sociology, Anthropology, History, and Policy Studies. While we will examine a wide-range of groups and movements, the course will emphasize those that aim to represent marginalized groups, such as women, racial and ethnic minorities, and low-income people. We begin the course with a brief introduction to the state of the subfield. We then turn to some of the golden oldies of thinking and research on group politics in the US—Madison, de Toqueville, Truman, and Dahl—discussing, for example, the role of groups in early ideas about US politics and the rise of pluralism as the dominant paradigm. Next, we move on to a range of critiques of the pluralist approach to understanding groups. After laying the conceptual and theoretical groundwork, we address empirical questions about interest groups and social/political movements: What do they do? How do they try to influence public policy? Do they influence public policy? How can we tell? What, if any, are the differences between interest groups on the one hand, and social movements on the other? We conclude the course with substantive examinations of several movements and interest groups (e.g., civil rights, anti-poverty, labour, LGBT rights, etc.), and by considering the implications of contemporary developments such as the 2000 election, 9-11, globalization, and transnationalism for extant theories and paradigms.

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: Miller,Joanne Marie
Description: Student may contact the instructor or department for information.

PORT 3501W Foundations of Portuguese Literature and Culture
3 credit(s); prereq 3003; Credit will not be granted if credit has been received for: PORT 3501V; Meets CLE req of Writing Intensive;
Instructor: Arenas,Fernando
Description: This course will be an introduction to Portuguese culture. Through an interdisciplinary focus that will include lectures and discussions based on literature, film, and popular music, the student will become acquainted with the historical, cultural and political development of Portugal from the late fifteenth century until today. We will cover a wide array of topics, including: Portuguese maritime expansion and colonialism in Asia, Africa, and Brazil; national identity; authoritarianism; revolution; de-colonization; democratization; women in Portuguese society; modernization; and the European Union. Ideally, students will acquire a general, yet solid understanding of Portuguese culture, its contribution to the world throughout history, and its links to Brazilian, as well as Portuguese-speaking African cultures. This course is part of the basic sequence of literature and culture courses in Portuguese, which also includes PORT 3502 (Brazilian Culture) e PORT 3503 (Cultures and Literatures of Lusophone Africa). Style: 75% Lecture, 25% Discussion. Grading: 50% reports/papers, 25% quizzes, 25% class participation.

PORT 3603 Portuguese-Speaking Cultures and Literatures in Translation
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core;
Instructor: Arenas,Fernando
Description: An introduction to the cultures of Portuguese-speaking Africa: Angola, Cape Verde, Guinea Bissau, Mozambique, and Sao Tome & Principe. Through an inter-disciplinary focus that includes history, literature, intellectual thought/critical theory, film, and popular music, we will study the key cultural problematics related to Lusophone Africa and its various individual countries. Some of the topics covered: colonialism and (post-) or (neo-)colonialism; Pan-Africanism and Negritude; wars of liberation and Third World Marxism; national identity formations; the politics of race, gender, and sexuality; the travails of democratization and modernization; the challenges of nation re-building and peace-making; and a possible future for (Lusophone) Africa in a globalized world. This course will be taught in English.
PORT 5990 Directed Research
1-4 credit(s), max credits 9, 9 repeats allowed; prereq instr consent, dept consent, college consent;
Instructor: Ferrell,Ana Paula
Description: Student may contact the instructor or department for information.

Post Secondary Teaching and Learning
140 Appleby Hall

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, 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 0731 or PsTL 0732. Note that PsTL 0721 is a traditional lecture/discussion version of this course and covers the same content.
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: 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: Duranczyk,Irene M
Description: Student may contact the instructor or department for information.

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: Staats,Susan K
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, as well as PsTL 1004 Statistics (which satisfies the CLE Mathematical Thinking requirement). Note that PsTL 0731 is a traditional lecture/discussion version of this course and covers the same content.
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 grade of at least C in 0731 or equiv 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 active learning groups, 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: 10% final exam, 25% reports/papers, 10% written homework, 40% additional semester exams, 15% problem solving.
Exam Format: Exams are a combination of short answer questions, calculations and graphing, and multiple choice questions.

PSTL 1005 Functions and Problems of Logic
3 credit(s); Meets CLE req of Mathematical Thinking Core;
Instructor: Duranczyk,Irene M
Description: This course satisfies the U of M mathematical thinking requirement but is not algebraic-based. It is a great course for you as a new college student, because it helps you develop into a more critical reader and listener, and definitely introduces you to additional study strategies and tools for success in college. As you take in new information in your other college classes and try to draw relationships between what you...
already know and what new information is being presented, the structures you learn in Logic will help you build skills to test your understanding and the validity of your thought processes.

Instead of using traditional mathematical operations, Logic is a course that practices the use of symbols to represent words, and employs logic operators? (symbols representing the relationships between statements) for the purpose of analyzing critical thinking structures in a more formal way. We will look at the historic roots of logic in non-academic societies for a culturally-rich look at how logic has developed over time and evolved into formal logic. Our primary activities will be to use non-technical materials (books, papers, textbooks, advertising, political speeches, movies, films, lyrics, etc.) which contain statements or arguments of interest to you and which can be used to develop additional skills in critical thinking. You will be able to directly apply the skills that you develop in this course to analyze content covered in other courses and aspects of your life. You will develop a keener ear and eye for analyzing deductive and inductive arguments and learn how to determine the truth and falsity of those arguments. As an example, you will be able to understand how an argument like this one: If Atlanta is in Florida, then Atlanta is south of Detroit. Atlanta is south of Detroit. Therefore, Atlanta is in Florida. . . . is false even though each individual statement is true and even though the argument does seem to follow a pattern of thought. I am sure you have heard other arguments that follow this same pattern: If P then Q. . . . Therefore, P. We will also look at other logical structures (Venn Diagrams, Logic Trees, etc.) for analyzing relationships between events, objects, ideas, etc. There will be abstract thinking that follows from concrete ideas and relationships. We will work hard thinking and analyzing, but we will do it in an area that is of high interest to you!! We will also do this hard work collectively in class in large and small groups.

Your grade will be based on how you apply and relate logic constructs to the rest of your life outside of the logic classroom. Join me in thinking about thinking! Style: 25% Lecture, 45% Discussion, 20% Small Group Activities, 10% Student Presentation. Grading: 60% reports/papers, 10% quizzes, 10% written homework, 10% journal, 10% in-class presentation.

PSTL 1042 Reading in the Content Area
2 credit(s), max credits 6, 3 repeats allowed; prereq Non-native speaker of English, CE enrollment, instr consent; Instructor: Rojas Collins, Molly C Description: Student may contact the instructor or department for information.

PSTL 1042 Reading in the Content Area
2 credit(s), max credits 6, 3 repeats allowed; prereq Non-native speaker of English, CE enrollment, instr consent; Instructor: Trites, Jill K Description: Student may contact the instructor or department for information.

PSTL 1042 Reading in the Content Area
2 credit(s), max credits 6, 3 repeats allowed; prereq Non-native speaker of English, CE enrollment, instr consent; Instructor: Kelly, Margaret Ellen Delehanty Description: Student may contact the instructor or department for information.

PSTL 1076 Orientation to Self and Career
2 credit(s); Instructor: Parson, Lorien Beth Description: Student may contact the instructor or department for information.

PSTL 1076 Orientation to Self and Career
2 credit(s); Instructor: Ganuza, Zoila M Description: Student may contact the instructor or department for information.

PSTL 1081 Structured Accelerated Learning in Social Sciences
A-F only, 1 credit(s), max credits 2; prereq Social science course, adviser approval; Instructor: Monson, Verna Elaine Description: Student may contact the instructor or department for information.

PSTL 1081 Structured Accelerated Learning in Social Sciences
A-F only, 1 credit(s), max credits 2; prereq Social science course, adviser approval; Instructor: Babulal, Ganesh Muneshwar Description: Student may contact the instructor or department for information.

PSTL 1082 Structured Accelerated Learning in the Sciences
A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq Science course, adviser approval; Instructor: Vu, Cuc K Description: Student may contact the instructor or department for information.

PSTL 1133 Nature Study
4 credit(s); Meets CLE req of Biological Sciences/Lab Core; Instructor: Kroese, Jesse D Description: PSTL 1133 Nature Study is an introductory natural history course. Students survey several habitat types in the Twin Cities area, identify the plants and animals common to each habitat, and link their occurrence to selected abiotic/biotic factors. A central unifying theme of PSTL 1133 is that abiotic environmental factors constrain the types of plant life that occurs in a given habitat. The plant life then constrains the types of animals found in the habitat. By measuring soil characteristics and local weather patterns, students will gather evidence about why particular organisms are found in one habitat and not in another. A second theme consistently addressed throughout the course is that organisms have unique characteristics and adaptations that allow them to thrive in a particular habitat. By studying the life histories of selected organisms, and by collecting soil, weather, and light data, students will build a body of evidence that allows them to answer questions about habitat biodiversity and why some organisms tend to be more ubiquitous than others (i.e., specialist or generalist species) Style: 20% Lecture, 10% Film/Video, 10% Student Presentation, 60% Field Trips. Grading: 20% final exam, 30% reports/papers, 10% special projects, 30% quizzes, 5% attendance, 5% in-class presentation.

PSTL 1135 Human Anatomy and Physiology
4 credit(s); Meets CLE req of Biological Sciences/Lab Core; Instructor: Jensen, Murray Stowe Description: PSTL 1135, Essentials of Human Anatomy and Physiology, is a biological science course, with laboratory, designed to introduce college freshmen to scientific thinking and career exploration in health care, kinesiology, or other areas in the life sciences. The course is organized around body systems, e.g., the respiratory system, the nervous system, etc., and uses both fitness and disease, (e.g., diabetes, cancer, atherosclerosis, etc.) to introduce students to essential concepts in anatomy and physiology. In the lecture setting, students will take notes while listening to lectures, work in groups to solve problems, learn to interpret graphical data, and complete short writing assignments. In the laboratory, student engage in traditional dissections, e.g., brains, hearts, etc., perform inquiry-based exercises, and participate in other hands-on activities. Cooperative learning activities, e.g., cooperative quizzes, are used in both the lecture and the lab settings of the course. All students enrolled in PSTL 1135 will be required to read at least one book, such as "When the Air Hits Your Brain," outside of regular class time. The course 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 Physical Systems: Principles and Practices
4 credit(s); Meets CLE req of Physical Science/Lab Core; Instructor: Hsu, Leon Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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.
PSTL 1166 Principles of Chemistry
3 credit(s); prereq 0701 or 0721 or equiv;
Instructor: Dara,Syed T
Description: This introductory chemistry course is designed for first year college students without prior chemistry course work or students studying science, technology, engineering or mathematics (STEM) wishing an intensive review of important fundamental chemical principles and imbedded mathematical operations. These course concepts are presented through lecture, in class group problem solving, discussion, demonstration, video and virtual laboratories. Chemistry problems and examples are drawn from daily life and connected to common lived experiences. You will work through the problems in the lecture supplement. Your final grade is based on the following activities, including “Question of the Day” (QOD), quizzes, and three lecture tests and a comprehensive final test. There will be review sessions, individual meetings where you will work in groups or individually. Following is a partial list of topics covered in the course. 1. Electron Structure and Configuration 2. Nuclear Chemistry 3. Names and Formulas of Inorganic Compounds and Acids 4. Avagadro's number and moles 5. Stoichiometry and Chemical equations 6. Chemical reactions, bonds and dot-structure 7. Thermochemistry and Enthalpy 8. Kinetic theory of gases and Gas Laws 9. Chemical Equilibria and dilution calculations 10. Acids and Bases: pH and pOH.
Style: 90% Lecture, 10% Discussion.
Grading: 32% midterm exam, 22% final exam, 37% quizzes, 9% class participation.
Exam Format: Multiple choice and short problems solving questions.

PSTL 1171 Physical Geology
4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Fayon,Annia
Description: Student may contact the instructor or department for information.

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 topics of 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 1211 People and Problems
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Ronnkivist,Amy Michelle
Description: This course is designed as an introduction to sociological thinking and methods of research. Areas of study include socialization, culture, stratification (on the basis of race, class, and gender), 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. Because ideas emerging from anthropology, feminist and critical race theory, and cultural studies are an important part of the mixture that creates the sociological perspective, readings and discussions will be interdisciplinary in nature. The purpose of this course is to provide you with the basic tools to better understand and question our ideas, and our social world. 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.
Style: 60% Lecture, 20% Discussion, 20% Small Group Activities. small group work
Grading: 50% mid exam, 25% final exam, 10% quizzes, 15% class participation.
Exam Format: multiple choice and essay

PSTL 1231 Perspectives in American History
4 credit(s); Meets CLE req of Historical Perspective Core;
Instructor: Goette,Susan A
Description: Student may contact the instructor or department for information.

PSTL 1231 Perspectives in American History
4 credit(s); Meets CLE req of Historical Perspective Core;
Instructor: Ghere,David Lynn
Description: This course addresses the major political, economic, social and diplomatic issues in early American History (to 1877) 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: Creating the American People, Establishing the American Nation, and the Crisis of American Slavery. 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 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% midterm 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 1235W Law in Society
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: Peter,Gary E
Description: PSTL 1235W, Law in Society, concerns the role of individuals and groups within society from both a societal and legal perspective. The course focuses on citizenship and public ethics and how these concepts relate to legal ethics and professional responsibility. The history and philosophy of American law will be explored via social science texts, legal cases and the play &quot;Antigone.&quot; Students will study criminal law and civil rights by reading seminal US Supreme Court cases, debating the issues, and reenacting trials and oral arguments. To learn how the adversarial system works (or doesn't work?) we will conduct a full mock jury trial. Students will get to choose whether they want to play the role of a lawyer or a witness. We will also read The Handmaid's Tale by Margaret Atwood as a way to further understand the concepts of justice, privacy, equality, and social justice.
Style: 20% Lecture, 20% Discussion. collaborative group work,
PSTL 1251 World History: Since 1500
4 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; Instructor: Arendale, David R
Description: May contact the instructor or department for information.

PSTL 1281 General Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSY 1001; Meets CLE req of Social Science Core; Instructor: Wambach, Cathrine A
Description: May contact the instructor or department for information.

PSTL 1285W Introduction to Cultural Anthropology
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive; Instructor: Goette, Susan A
Description: May contact the instructor or department for information.

PSTL 1311 Art: General Art
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; Instructor: Chapman, Jeffrey T
Description: May contact the instructor or department for information.

PSTL 1312 Identity, Community, and Culture in the Performing Arts
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 theatre arts, from the perspective of viewer and participant. Emphasis is placed on in-class scene 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 attendance at several local theatre productions, theater tours, and interactions with guest artists from the Twin Cities theatre community.
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 1364 Literature of the American Immigrant Experience
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; Instructor: Hodne, Barbara Downs
Description: May contact the instructor or department for information.

PSTL 1364 Literature of the American Immigrant Experience
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; Instructor: Rojas Collins, Molly C
Description: May contact the instructor or department for information.

PSTL 1364 Literature of the American Immigrant Experience
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; Instructor: Fitzpatrick, Renata Marie
Description: The course explores multi-ethnic perspectives of American life as reflected in 20th century literature written by American immigrants. The literature will be contextualized with fairly minimal references to historical patterns/conditions. Discussions will include various related themes, such as conditions leading to emigration, adjustments to life in the United States, conflicts of identity and so on. The goals of this freshman course include: to develop the ability to interpret and analyze texts, and increase fluency in responding to literature through class discussions and writing.

PSTL 1365W Literatures of 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: 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 1365W Literatures of 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: Fitzpatrick, Renata Marie
Description: An introduction to U.S. literatures from 1865 to the present day. We will read a variety of stories, plays, poems, looking at issues of identity and diversity in the United States across a broad timespan through the experiences of literary characters from multiple ethnic and social backgrounds. 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: 25% Lecture, 50% Discussion. Group work, in class writings.
Exam Format: Short answer and essay

PSTL 1366W Images of Gender in Literature
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Buturian, Linda J
Description: "Images of Gender in Literature" is an introductory course shaped around the compelling theme of gender. We will analyze a diverse range of world literature, focusing on short stories and poetry, while we deepen our understanding of gender issues. As we become familiar with terms and themes of literature we will grapple with questions such as: How does this story reflect the culture of this time and place, and how does culture shape our understanding of what it means to be a man? What images does this poem use to reveal expectations for being female in upper class British society? Students will learn to read closely and become more engaged with literature as well as to develop critical thinking and writing skills. Concentrating mainly on literature in this century, we will discuss and write about how gender has been represented in literature through diverse cultures and societies.
1366W is a writing intensive course; written work will total approximately 20 pages, which include responses to readings, some essay questions on exams, and two essays which demonstrate literary analyses supported with textual evidence. The instructor and TA will provide students with instruction and feedback, and assignments are designed to help students write effective and engaging literary analysis.
Style: 50% Lecture, 50% Discussion.
Grading: 20% mid exam, 25% final exam, 25% reports/papers, 15% quizzes, 15% class participation.
PSTL 1374W The Movies
3 credit(s); Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Hyland,Ezra St
Description: Student may contact the instructor or department for information.

PSTL 1461 Oral Communication in the Public Sphere
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Trites,Jill K
Description: Student may contact the instructor or department for information.

PSTL 1461 Oral Communication in the Public Sphere
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Dorsey,Heather Jane
Description: Student may contact the instructor or department for information.

PSTL 1461 Oral Communication in the Public Sphere
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; 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% mid exam, 13% final exam, 18% written homework, 8% attendance, 50% in-class presentation.

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 at the new MN Center for Photography located in NE Minneapolis. 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: Collette,Larry E
Description: This course explains the basic vocabulary, conceptual frameworks, principles and analytical techniques for understanding how business is organized and managed. The course aims to provide students with an appreciation for the interrelationships between business, society, social forces, government, and the economic system within the U.S. and internationally. Additionally, this course should help students to investigate career interests and their role in the business field. The course materials, assignments, activities, and class discussion questions are designed so that you will develop the analytical skills necessary to evaluate business, government and social situations. We will seek to cultivate an appreciation for diversity within the U.S. as well as internationally. Specific objectives of this course include being able to: ? Define the components of business systems. ? Understand the various forms of business organization and the reasons for differences. ? Relate business to the economy and society locally, nationally, and internationally. ? Understand the managerial, marketing and finance processes and the relationships among them. ? Communicate orally and in writing about business systems. ? Development of a business plan and marketing plan. ? Have an enjoyable and worthwhile learning experience. A group project to develop a hands on Marketing plan is part of the course assignments. This effort has been rated by students as a great learning and fun experience.
Style: 50% Lecture, 10% Film/Video, 10% Discussion, 20% Small Group Activities, 5% Student Presentation, 5% Demonstration.
Grading: 15% mid exam, 20% final exam, 20% special projects, 30% written homework, 5% reflection paper, 10% in-class presentation.
Exam Format: Multiple Choice and true or false questions.

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.
Style: 20% Discussion, 80% Web Based. 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.

PSTL 1816 African-American Literature
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;
Instructor: Hyland,Ezra St
Description: Student may contact the instructor or department for information.

PSTL 1902 Freshman Seminar: Cultural Diversity: Immigrant Families: Are They all the Same?
3 credit(s); prereq freshman; Credit will not be granted if credit has been received for: PSTL 1901; Meets CLE req of Cultural Diversity Theme;
Instructor: Dettner,Daniel Frank
Description: Student may contact the instructor or department for information.
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 new science to 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. The 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 eugenesics. 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 ethical 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 TermCharting Pathways to Global Development
3 credit(s); prereq 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: Student may contact the instructor or department for information.

3 credit(s); prereq 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 expression 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.

PSY 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSTL 1281; 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: PSTL 1281; Meets CLE req of Social Science Core;
Instructor: Briggs,Kathleen Helen
Description: Psy 1001 (4 credits), a prerequisite for all advanced Psychology courses, introduces the scientific study of human behavior and mind. Students meet three times a week for multi-media megaclass lectures given by a team of faculty and once a week in small activity-oriented discussion sections. The course focuses on scientific explanations and real world examples of how individuals understand and make sense of their world and experiences. We focus on the problems, methods and research findings of psychology and introduce students to the biological basis of behavior; physical, emotional and cognitive development; models of learning, memory, and representation of the world; individual differences in personality and intelligence; abnormal behavior and treatment and social influences on
individual behavior. In addition, Psy 1001 has a writing component to encourage students in the skills of academic discourse. Eight times during the term each section of students participate in an on-line discussion of a controversy in Psychology and write a brief paper summarizing their conversation. The skills practice include developing a hypothesis, providing supporting evidence, critically evaluating the evidence provided by others, listening and responding respectfully to the conclusions and evidence of others. Style: 70% Lecture, 30% Discussion. multi-media presentations and activities Grading: 40% mid exam, 28% final exam, 20% reports/papers, 12% class participation. Exam Format: multiple choice exams

PSY 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSTL 1281; 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 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSTL 1281; Meets CLE req of Social Science Core;
Instructor: Mannino,Celia Anna
Description: Student may contact the instructor or department for information.

PSY 1001H Honors Introduction to Psychology
4 credit(s); prereq Honors; Credit will not be granted if credit has been received for: PSTL 1281; Meets CLE req of Social Science Core;
Instructor: Brothen,Thomas
Description: (Description forthcoming.) Style: WebCT Internet exercises and quizzes

PSY 1001H Honors Introduction to Psychology
4 credit(s); prereq Honors; Credit will not be granted if credit has been received for: PSTL 1281; Meets CLE req of Social Science Core;
Instructor: Briggs,Kathleen Helen
Description: Psy 1001 (4 credits), a prerequisite for all advanced Psychology courses, introduces the scientific study of human behavior and mind. Students meet three times a week for multi-media megaclass lectures given by a team of faculty and once a week in small activity-oriented discussion sections. The course focuses on scientific explanations and real world examples of how individuals understand and make sense of their world and experiences. We focus on the problems, methods and research findings of psychology and introduce students to the psychological basis of behavior; physical, emotional and cognitive development; models of learning, memory, and representation of the world; individual differences in personality and intelligence; abnormal behavior and treatment and social influences on individual behavior. In addition, Psy 1001 has a writing component to encourage students in the skills of academic discourse. Eight times during the term each section of students participate in an on-line discussion of a controversy in Psychology and write a brief paper summarizing their conversation. The skills practice include developing a hypothesis, providing supporting evidence, critically evaluating the evidence provided by others, listening and responding respectfully to the conclusions and evidence of others. Style: 70% Lecture, 30% Discussion. multi-media presentations and activities Grading: 40% mid exam, 28% final exam, 20% reports/papers, 12% class participation. Exam Format: multiple choice exams

PSY 1905 Freshman Seminar: Psychology of Health, Exercise and Well-being
A-F only, 3 credit(s); prereq freshman; Indigenous,William
Description: Course provides an introduction to psychological factors associated with personal health and well-being. Specific topics include health behavior, theories of behavioral change, stress and coping, psychological health and well-being within a multicultural context, the relationship between personality and well-being, psychological benefits of exercise, and subtopics in positive psychology. Includes a discussion-based format utilizing small and large group activities, multi-media presentations, and guest speakers.

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

This information is accurate as of 9/15/2008 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.

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; Meets CLE req of Mathematical Thinking Core;
Instructor: Holman,Ray
Description: We will cover basic statistical concepts like means, variability, null hypothesis testing, testing mean differences, linear regression and more. The lecture for this class will be mostly conceptual, and the labs will teach you the tools you will need for application. We may even have a few laughs along the way! The URL is from the Fall 2007 course.
Grading: There are 3 exams total, each worth around 1/4 of your grade. The other portion of your grade comes from completing homework assignments and ungraded quizzes.
Exam Format: Fill in the blank, multiple choice, and short answer questions are on the exams.

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; Meets CLE req of Mathematical Thinking Core;
Instructor: Guyer,Rick D
Description: We will cover basic statistical concepts like means, variability, null hypothesis testing, testing mean differences, linear regression and more. The lecture for this class will be mostly conceptual, and the labs will teach you the tools you will need for application. We may even have a few laughs along the way! The URL is from the Fall 2007 course.
Grading: There are 3 exams total, each worth around 1/4 of your grade. The other portion of your grade comes from completing homework assignments and ungraded quizzes.
Exam Format: Fill in the blank, multiple choice, and short answer questions are on the exams.

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; Meets CLE req of Mathematical Thinking Core;
Instructor: Bartels Jr,Roger Dennis
Description: We will cover basic statistical concepts like means, variability, null hypothesis testing, testing mean differences, linear regression and more. The lecture for this class will be mostly conceptual, and the labs will teach you the tools you will need for application. We may even have a few laughs along the way! The URL is from the Fall 2007 course.
Grading: There are 3 exams total, each worth around 1/4 of your grade. The other portion of your grade comes from completing homework assignments and ungraded quizzes.
Exam Format: Fill in the blank, multiple choice, and short answer questions are on the exams.

PSY 2801H Honors Introduction to Psychological Measurement and Data Analysis
3 credit(s); prereq [1001 or equiv], honors; intended for students who plan to major in psychology; Meets CLE req of Mathematical Thinking Core;
Instructor: Rausch,Joe
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: Manor,Julia E
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: Stellmack,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, 16% laboratory evaluation.

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: Buchanan,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: Borneman,Matthew John
Description: Student may contact the instructor or department for information.

PSY 3031 Introduction to Sensation and Perception
3 credit(s); prereq 1001;
Instructor: Olman,Cheryl Annette
Description: Student may contact the instructor or department for information.

PSY 3051 Introduction to Cognitive Psychology
3 credit(s); prereq 1001; Meets CLE req of Social Science Core;
Instructor: Landers,Amy Kurivichack
Description: Student may contact the instructor or department for information.

PSY 3061 Introduction to Biological Psychology
3 credit(s); prereq 1001 or Biol 1009; Credit will not be granted if credit has been received for: PSY 3005V; Meets CLE req of Writing Intensive;
Instructor: Stellmack,Mark A
Description: PSY 3061 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, 16% laboratory evaluation.
PSY 3061 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: Niccoli-Waller, Caprice
Description: In this lecture course we will study the biology of behavior. The focus of the field, and hence the course, is on the neural mechanisms of behavior; however, we will also include other relevant biological topics such as genetics and evolution. The first part of the course is devoted to helping you develop foundational knowledge of the nervous system. In the final two sections, we will explore some more complex behaviors such as learning and memory, emotion, and psychopathology. There are no prerequisites for this course, but introductory courses in biology and psychology are strongly recommended.
Style: 80% Lecture, 5% Film/Video, 15% Discussion.
Grading: 100% mid exam.

PSY 3101 Introduction to Personality
3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5101;
Instructor: Winterheld, Heike A
Description: Student may contact the instructor or department for information.

PSY 3135 Introduction to Individual Differences
3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5135;
Instructor: Yoon, Henry Hyunkoo
Description: This course will provide you with a broad overview and general introduction to the study of individual differences. Towards this goal, a particular focus will be placed on Behavioral Genetic (BG) methods and designs as it pertains to the nature and origins of such differences. In essence we will be asking to what degree genetic and environmental influences co-determine the expression of various psychological phenotypes including psychometric IQ, personality, attitudes/interests, and facets along broader psychopathologic dimensions (e.g., externalizing). Principles and findings primarily from quantitative genetics (twin and adoption studies) will be discussed, although basic molecular genetic material will also be presented. This course is a prerequisite to Psychology 5-137: Behavioral Genetics.
Style: 99% Lecture. video
Grading: 40% mid exam, 30% final exam, 25% quizzes, 5% other evaluation. extra credit opportunity
Exam Format: multiple choice

PSY 3201 Introduction to Social Psychology
4 credit(s); prereq 1001 or instr consent;
Instructor: Ergun, Damia
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: Lippmann, Brad Michael
Description: Student may contact the instructor or department for information.

PSY 3202 Introduction to Social Psychology
4 credit(s); prereq 1001 or instr consent;
Instructor: Kim, Anita
Description: This course is designed to provide you with a thorough review of social psychological principles, theories, constructs, and methodologies as seen in both the academic world and the "real world." We will examine a variety of topics including conformity, obedience, group processes, attitudes, and stereotyping, prejudice, and discrimination. You will learn about these topics by attending lectures, discussing them with your peers, and writing about the topics across several writing assignments. Course grade will largely be based on exam performance and writing assignments.

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 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) in domains that span different areas of psychology (e.g., social, clinical, developmental, industrial-organizational) and of other disciplines (e.g., anthropology, public health, sociology).

PSY 3511 Introduction to Counseling Psychology
3 credit(s); prereq 1001;
Instructor: Reichwald, Reed Tyler
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 in 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, formal assessment, working with cultural diversity, empirical support for treatments, and ongoing research in the field regarding the processes underlying client change and outcomes.
**PSY 3511 Introduction to Counseling Psychology**

**3 credit(s); prereq 1001;**

**Instructor:** Song.Sue

**Description:** This course is aimed to provide students with a general introduction to the field of counseling psychology. First, students will learn about the history of the profession and its relationships to other related health and mental health specialties. Second, this course will teach students about the different theoretical and psychotherapeutic models that guide the work of counseling psychologists. Third, we will explore contemporary issues that influence the counseling profession, including ethics, multicultural competence, managed care, and process and outcome research. Finally, students will have an opportunity to learn about training, job settings, and activities in which counseling psychologist are involved.

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**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

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**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:** 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 have a particular interest in methods of treatment or therapy, please consider Psy3617: Intro to Clinical Psychology or Psy3611: 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% midterm exam, 30% final exam, 20% reports/papers.

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**Instructor:** Davenport, Nicholas D

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

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**PSY 3617 Introduction to Clinical Psychology**

**3 credit(s); prereq 3604 or 5604H;**

**Instructor:** Lloyd, Martin Daniel

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

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**PSY 3711 Introduction to Industrial and Organizational Psychology**

**3 credit(s); prereq 1001, [2801 or equiv];**

**Instructor:** Campana, Kristie Lynn

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

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**PSY 3902W Major Project in Psychology**

**A-F only, 3 credit(s); prereq PSY Major, Senior, Psy 3001W or 3005W; Meets CLE req of Writing Intensive;**

**Instructor:** Brothen, Thomas

**Description:** For complete course description go to (you may need to copy and paste this URL into your browser): http://www.psych.umn.edu/undergrad/psy3902w/07change.htm

**Style:** 10% Lecture, 10% Discussion, 60% Laboratory. Individual meetings

**Grading:** 70% reports/papers, 10% quizzes, 10% in-class presentation, 10% other evaluation. lab assignments

**Exam Format:** lab assignments

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**PSY 3960 Undergraduate Seminar**

**1-5 credit(s), max credits 45, 9 repeats allowed; prereq 1001;**

**Instructor:** Hertel, Andrew William

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

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**PSY 3960 Undergraduate Seminar**

**1-5 credit(s), max credits 45, 9 repeats allowed; prereq 1001;**

**Instructor:** Hall, Jason R

**Description:** This course will be a discussion-based seminar covering the biological bases of aggression, pathological substance use, and criminal behavior. We will review methods of studying the brain (e.g., psychophysiology, neural imaging) but our primary focus will be to review what these methods have suggested about the cognitive deficits and neurological pathways of individuals with these traits. The course is designed for seniors with a background in biological psychology and abnormal psychology.

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

**Grading:** 45% mid exam, 45% final exam, 10% class participation.

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**PSY 3996 Undergraduate Fieldwork and Internship in Psychology**

**1-6 credit(s), max credits 12, 4 repeats allowed; prereq 1001, instr consent , dept consent , college consent ;**

**Instructor:** Dean, Brooke Lyn

**Description:** The Psychology Service Internship Seminar is an applied course designed to offer undergraduate students the opportunity to develop practical, work-related skills through service while also learning, 1) how the discipline of psychology is at work in the larger community and 2) how the major in psychology can provide preparation for various careers. In addition to the time spent on-site at your internship, you will complete reflective exercises, complete readings related to each area of the discipline represented by internship sites, participate in discussions intended to deepen your understanding of applications of psychological concepts, and complete a final project and oral presentation related to your internship experience. A portion of the course will also be devoted to your career development. Prerequisites: Psy 1001, psychology major or minor, others as determined by sponsoring organizations.

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**PSY 4011 Applied Behavioral Psychology**

**3 credit(s); prereq 3011, instr consent ;**

**Instructor:** Peterson, Gail Burton

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This information is accurate as of 9/15/2008 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.
PSY 4012 Behavior Analysis and Autism
A-F only, 4 credit(s); prereq Reliable transportation, instr consent; 3 credit(s); prereq 3031 or instr consent; 3 credit(s); prereq 3031 or 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 4032 Psychology of Music
3 credit(s); prereq 3031 or instr consent; 3 credit(s); prereq 3031 or instr consent; 3 credit(s); prereq 3031 or instr consent;
Instructor: Oxenham,Andrew John
Description: The two main goals of the course are: 1) To provide a general overview of some fundamental concepts in the perception and production of sound and music; 2) To provide an in-depth study of a few selected topics within music psychology, drawing on recent primary research literature. The course is built around a combination of lectures, providing the necessary background information, and student-led seminars, in which papers from the literature are discussed. Lecture topics include: Introduction to sound, introduction to hearing, masking and the principles of MP3 coding, categorical perception in music, scales, consonance and dissonance in harmony, melody perception and memory, and the perceptual organization of sound and music. Students are based around themes, which this year will include: tonality and rhythm, cognitive neuroscience of music, comparative and developmental studies of music perception, musical expertise and the bases of talent. Each student will lead the discussion of one published research paper in class.
Grading: 40% final exam, 20% reports/papers, 15% quizzes, 10% written homework, 10% in-class presentation, 5% class participation.

PSY 4501 Psychology of Women and Gender
3 credit(s); prereq 1001 or instr consent; 3 credit(s); prereq 1001 or instr consent; 3 credit(s); prereq 1001 or instr consent;
Instructor: Frazier,Patricia Ann
Description: Course Description: This course covers current theory and research regarding the psychology of women and psychological gender differences and similarities. This includes topics that relate uniquely to women as well as gender comparisons in personality, abilities, and behavior. Class sessions will consist of lectures, small and large group discussions, guest speakers, and videos. My goal is for you to gain greater understanding of both the content and methods of psychological research related to women and gender. Objectives: * Present a research-based course suitable for Psychology majors yet accessible to students from other majors. * Facilitate students' learning of key terms and findings related to psychology of women * Engage students in critical thinking about psychological constructs, theoretical issues, and psychological research. * Provide students with hands-on research experience in order to develop the skills to become more knowledgeable consumers of psychological research reported in popular and scholarly articles. * Encourage students to apply course content to their own lives.
Style: 50% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 5% Guest Speakers. 3-4 videos per semester 2-3 speakers per semester
Grading: 38% mid exam, 25% final exam, 19% reports/papers, 17% reflection paper. Midterm 1 19% of grade Midterm 2 19% of grade in-class assignments 17% of grade Data collection assignments 18% of grade Final exam 25% of grade
Exam Format: multiple choice, short answer, and short-essay

PSY 4960 Seminar in Psychology
1-4 credit(s), max credits 16, 4 repeats allowed; prereq [1001, psych major] or instr consent; 1-4 credit(s), max credits 16, 4 repeats allowed; prereq [1001, psych major] or instr consent; 1-4 credit(s), max credits 16, 4 repeats allowed; prereq [1001, psych major] or instr consent;
Instructor: Fisher,Emily L
Description: This course will help students to learn basic research skills within the interdisciplinary field of political psychology. Students will work on an ongoing research project here at the University, will be required to write a research paper based on their research experience, and will give an oral presentation at the end of the semester. This course is unique in several ways: (1) the time spent in class is minimal; (2) most of the work will be done outside of class with psychological researchers; (3) the in-class teaching will be focused on practical research skills and each student will inform themselves of a different specialized area; and (4) you will be teaching each other about your research projects in a seminar format. This class is designed to guide students engaged in doing political psychology research. Building upon previous experience in studying political science, psychology, or mass communication. Throughout the semester, students will be guided through several phases of the research process. Topics for discussion will include project selection, library skills, tips for research collaboration, conducting a literature review, and some basic data analytic skills. We will also focus on writing a research paper professionally, and oral presentation skills. The class format will also be flexible and responsive to particular problems students may face in doing their research over the course of the semester.

PSY 4994V Honors Research Practicum
4 credit(s); prereq [3005W/V or 3001W/V], honors psych; 4 credit(s); prereq [3005W/V or 3001W/V], honors psych; 4 credit(s); prereq [3005W/V or 3001W/V], honors psych;
Instructor: Meets CLE req of Writing Intensive;
Description: This course is required of all psychology honors majors, and offers an opportunity for advanced students to work with faculty members on a one-on-one basis. Students interested in conducting honors research should work with their advisor to find a faculty mentor prior to registering for this course. Open only to psychology majors, this course is intended to provide a research experience for advanced students, who are planning to write an honors thesis and have completed Preparing and Writing an Honors Thesis. This course is supervised by one faculty member, who will meet with the student at least once each week, and who will be responsible for evaluating the student's work. Course work is conducted at the student's own pace. Students are encouraged to work on an honors thesis in other psychology courses, and the materials of such courses may be applied toward the honors requirements. This course is required of all psychology honors majors, and offers an opportunity for advanced students to work with faculty members on a one-on-one basis. Students interested in conducting honors research should work with their advisor to find a faculty mentor prior to registering for this course. Open only to psychology majors, this course is intended to provide a research experience for advanced students, who are planning to write an honors thesis and have completed Preparing and Writing an Honors Thesis. This course is supervised by one faculty member, who will meet with the student at least once each week, and who will be responsible for evaluating the student's work. Course work is conducted at the student's own pace. Students are encouraged to work on an honors thesis in other psychology courses, and the materials of such courses may be applied toward the honors requirements.
PSY 5014 Psychology of Human Learning and Memory
3 credit(s); prereq 3011 or 3051 or honors or grad student;
Instructor: Koustitaal,Wilma
Description: A fundamental characteristic of memory is that it in some way repeats 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, as 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 will also seek to relate behaviorally observed variability in memory 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: 40% reports/papers, 15% class participation, 20% other evaluation. Take Home Exam I; 25% Take Home Exam II

PSY 5018H Mathematical Models of Human Behavior
3 credit(s); prereq Math 1271 or instr consent;
Instructor: Schrater,Paul Robert
Description: Mathematical models of complex human behavior, including individual and group decision making, information processing, learning, perception, and overt action. Specific computational processes drawn from decision theory, information theory, probability theory, machine learning, and elements of data analysis.

PSY 5054 Psychology of Language
3 credit(s); prereq [3001W or equiv] or honors or grad student;
Instructor: Fletcher,Charles R
Description: Theories/experimental evidence in past and present conceptions of psychology of language. Topics include language and the brain, perceptual processes in reading, speech perception, lexical access, semantic memory, sentence and discourse comprehension, pragmatics, speech production, composition, language and thought and applied psycholinguistics.
Style: 100% Lecture.
Grading: 60% mid exam, 40% final exam.
Exam Format: multiple choice, operational definitions, essay

PSY 5064 Brain and Emotion
A-F only, 3 credit(s); prereq 3061 or 5061 or instr consent;
Instructor: Cuthbert,Bruce Newell
Description: This course will explore contemporary approaches to research on emotional processes, and the systems in the brain that implement emotional behavior. The course includes coverage of emotional processes as they are studied both in humans and in animals. Related affective processes such as mood and temperament will also be discussed. Class discussions will emphasize the need to think critically about emotional behavior and subjective feelings as they relate to activity in various parts of the brain.
Style: 66% Lecture, 33% Discussion.
Grading: 30% mid exam, 40% final exam, 20% reports/papers, 10% class participation.
Exam Format: multiple choice, short essay

PSY 5136 Human Abilities
3 credit(s); prereq 3135 or 5135, 5662 or equiv or instr consent;
Instructor: Kuncel,Nathan Richard
Description: Student may contact the instructor or department for information.

PSY 5138 Psychology of Aging
3 credit(s); prereq 3061W 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, 2% Film/Video, 35% Discussion, 1% Small Group Activities, 1% Demonstration, 1% Guest Speakers.
Grading: 40% final exam, 20% reports/papers, 40% quizzes.
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 one area of theory and research is more identified with the field of social psychology than the study of attitudes and persuasion processes. This course therefore 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 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, and explicit and implicit measurement, the cognitive structure and functions of attitudes, and the complex relationship between attitudes and behavior. The second part of the course will cover various social psychological theories of persuasion and their diverse applications. Class time will involve lectures by the instructor and guest lecturers, 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.
Exam Format: Multiple choice, short ID questions, essay on exam #2

PSY 5205 Applied Social Psychology
3 credit(s); prereq 3201 or grad student or instr consent;
Instructor: Gonzales,Marti Hope
Description: Psychology 5205 is designed for the advanced undergraduates in psychology and for graduate students in psychology and related disciplines. The tradition of applied or action research in social psychology is almost as old as the discipline, itself. Kurt Lewin - viewed by many as the "father" of American social psychology - was the first to advocate the use of social-psychological research and theory to conceive of and ameliorate social problems. And although interest in this specialty area waned for a number of years, in the last two decades there has been a resurgence of interest in the potential contributions of scientific social psychology to the understanding
of and solution to "real world" problems. This course will provide for an overview of domains in which social-psychological theory and research have been applied outside the laboratory. We will begin the semester with a brief overview of distinctions between basic and applied social-psychological research, and of problems and issues unique to applied work. Finally, the duration of the semester will be devoted to readings of a select sample of settings in which applied researchers have made contributions. These include, but may not be limited to: psychological and physical health, conservation and other environmental concerns, education, consumer behavior, television and the mass media, prejudice and intergroup relations, law and the criminal justice system, and public policy.

**Style:** 65% Lecture, 35% Discussion.

**Grading:** 33% mid exam, 33% final exam, 33% reports/papers.

**Exam Format:** Multiple-choice and short essay

**PSY 5501 Vocational and Occupational Health Psychology**

3 credit(s); prereq 3001W or equiv or instr consent

**Instructor:** Leuty, Melanie Elizabeth

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

**PSY 5604H Abnormal Psychology**

3 credit(s); prereq honors or grad student or instr consent

**Credit will not be granted if credit has been received for:** PSY 3604;

**Instructor:** Wilkinson, Todd J

**Description:** Provides an examination of major psychological disorders, including criteria, developmental factors, and treatments. Topics include mood disorders, anxiety disorders, eating disorders, PTSD, dissociative and somatoform disorders, substance use disorders, disorders of personality, schizophrenia, disorders of memory, classification and assessment, and associated social stigma.

**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:** Purvanova, Radostina Krassimirova

**Description:** This course reviews psychological research and theory in the field of Organizational Psychology. The material is divided into two parts. The first part of the course will cover material related to the major dependent variables in the field - the things the field tries to explain. Those include job performance, job satisfaction, organizational commitment, withdrawal, organizational justice and the psychological contract, stress and burnout. The second part of the course will cover material related to motivational mechanisms that affect these dependent variables. It will review the major theories of work motivation including need theories, expectancy theories, goal setting theory, and self regulation, and examine the role of individual differences in work motivation. It will also cover theories of leadership, group performance, and group process and consider motivational effects of leaders and groups on the work motivation of individuals. The overall objective of this course is to help students understand the psychological causes of human behavior in work organizations and its consequences for individual fulfillment and organizational effectiveness. By inviting students to think about psychological theories and research in this area, the course aims to provide them with useful conceptual and practical tools for analyzing individual behavior in organizations. It also aims to prepare students for more advanced study and research in organizational psychology.

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

**PSY 5855 Advanced Psychological and Educational Measurement**

4 credit(s); prereq 5862 or instr consent

**Credit will not be granted if credit has been received for:** EPSY 8222;

**Instructor:** Weiss, David J

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

**PSY 5960 Topics in Psychology: Psychological Perspectives**

3 credit(s), max credits 8; prereq 1001, [jr or sr or grad student];

**Instructor:** Koutstaal, Wilma

**Description:** This seminar course will examine recent research findings from psychology and cognitive neuroscience to arrive at a better understanding of the conditions that foster, or impede, flexible thinking. Two key questions will be examined throughout. First, what are the relative roles of predominantly controlled or deliberate modes of cognitive processing versus more automatic (or spontaneous) processes in enabling and sustaining creatively adaptive thinking? Second, how do mental representations at differing levels of specificity - highly abstract versus highly specific - contribute to flexible thinking?

**Grading:** This is a seminar class. Participants will be asked to prepare specific written topics for each class, and to discuss these in the class.

**Exam Format:** Take Home Exams (Essay Questions)

**PSY 5960 Topics in Psychology: Introduction to Functional MRI**

3 credit(s), max credits 8; prereq 1001, [jr or sr or grad student];

**Instructor:** Engel, Stephen A

**Description:** This course will offer an overview of functional MRI for undergraduates and graduates. No special background is necessary, but some comfort with basic neuroscience would be helpful. The class will be lecture with some lab exercises, and will emphasize design and interpretation of fMRI experiments. We may have the chance to work in small groups and design and run our own fMRI experiments.

**Style:** 75% Lecture, 25% Student Presentation.

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

**PSY 5960 Topics in Psychology: Diversity & Multiculturalism: Intergroup Relations**

3 credit(s), max credits 8; prereq 1001, [jr or sr or grad student];

**Instructor:** Molina, Ludwin E

**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:** Grove, William Merrill

**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, Jeffrey 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: Marsolek, 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: Waller, Niels Gordon
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: 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: 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: 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: Wilkinson, Todd J
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: 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 instr 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 instr consent, dept consent;
Instructor: Viemeister, Neal Frank
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: 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 instr consent, dept consent;
Instructor: Overmier, J. Bruce
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: 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 instr 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 instr consent, dept consent;
Instructor: Campbell, John P
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: Gonzalez, 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 instr 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 instr 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 instr 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 instr 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 instr consent, dept consent;
Instructor: Onesti, 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 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: Jiang, Yuhong
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: 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 instr 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 instr consent, dept consent
Instructor: Pendergrass, Laura 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: 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: 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 instr consent, dept consent
Instructor: Krueger, Robert
Description: Student may contact the instructor or department for information.

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

PSY 8055 Seminar: Cognitive Neuroscience
3 credit(s); prereq 5015 or instr consent
Instructor: Marsolek, Chad James
Description: Recent advances in analysis of neural bases of cognitive functions.
Style: 5% Lecture, 95% Discussion.
Grading: 50% in-class presentation, 50% class participation.

PSY 8206 Proseminar: Research in Social Psychology
S-N only, 2 credit(s), max credits 6, 3 repeats allowed; prereq Psych PhD student, 8205;
Instructor: Borgida, Eugene
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: Miller, Joanne Marie
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: Shih, Jerome Stuart
Description: Student may contact the instructor or department for information.

PSY 8541 Multicultural Psychology
3 credit(s); prereq Psych grad student or instr consent;
Instructor: Lee, Richard M
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: Grove, William Merrill
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 8701 Seminar in Industrial and Organizational Psychology I
A-F only, 3 credit(s);
Instructor: Kuncel, Nathan Richard
Description: Student may contact the instructor or department
for information.

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 in Quantitative and Psychological Measurement
3 credit(s), max credits 15, 5 repeats allowed; prereq 5862,
5865, instr consent;
Instructor: Wailer, 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: McGue, 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: McGue, 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: 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
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: 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.

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: 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.

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: Scott PharmD, Doneka R
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 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 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.

PA 3961 Leadership Minor Field Experience
A-F only, 2 credit(s); prerequisite [3961W or EDPA 3302W]; Credit will not be granted if credit has been received for: EDPA 3402;
Instructor: Werner, Linnette
Description: This field experience is an internship-based course that encourages civic engagement and provides practical leadership situations for students to apply the theories and concepts learned in the previous two leadership courses. Students will identify three goals, competencies or skills they wish to further develop during the semester. Students will serve as Public Achievement coaches at St. Bernard's School in St. Paul where the middle and high school students are getting involved in constructing projects around issues in their school/community. In the process, they are learning about leadership, public work, and public life. Coaches help with the projects and facilitate group learning. The experience is intended to provide undergraduate students with an exciting opportunity to integrate theoretical reflection on leadership, social change, and civic engagement. The coach's role will be to help younger citizens think and speak more clearly about the political world (in a language populated with concepts concerning public work, power, freedom, interests, and problem-solving) and help students cultivate the leadership skills of deliberation, negotiation, teamwork, and public speaking. Through this work, students in the field experience will learn about their own leadership styles, skills, and goals.

PA 3990 General Topics in Public Policy: 1st Year Program Leadership Development
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Reecck, Joanne Kathryn
Description: This course explores a variety of leadership topics based on leadership theory, experiential learning, and personal development. The course is designed to help students create a learning community that empowers them to explore and examine specific leadership topics such as group dynamics, team building, diversity, communication, ethics, and a variety of social issues. Students also learn to challenge each other on specific issues as a way to build critical thinking skills. The main goal of the course is to prepare students for their specific position working with new students for the summer of 2008.
Style: 20% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 5% Student Presentation, 5% Field Trips, 20% Guest Speakers, 5% Service Learning.
Grading: 20% reports/papers, 15% special projects, 20% attendance, 15% reflection paper, 15% in-class presentation, 15% other evaluation.

PA 4961W Leadership for Global Citizenship
A-F only, 3 credit(s); prerequisite [3971 or EdPA 3402]; Credit will not be granted if credit has been received for: EDPA 4303W;
Meets CLE req of Writing Intensive;
Instructor: Atwood, Susan J
Description: 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.
PA 5002 Introduction to Policy Analysis  
A-F only, 1.5 credit(s); prereq Major in public policy or instr consent  
 Instructor: Hoenack, Stephen A  
Description: Process of public policy analysis from problem structuring to communication of findings. Commonly used analytical methods. Alternative models of analytical problem resolution.

PA 5003 Introduction to Financial Analysis and Management  
A-F only, 1.5 credit(s); prereq Public policy major or grad nonprofit mgmt cert or instr consent  
 Instructor: Zhao PhD,Zhirong  
Description: Basic finance/accounting concepts/tools used in public/nonprofit organizations. Fund accounting, balance sheet and income statement analysis, cash flow analysis, and public/nonprofit sector budgeting processes. Lectures, discussions. Cases/examples from nonprofit and public sector organizations

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: Kenney,Sally J  
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: 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: Le,Thanh Trung  
Description: Application of economic reasoning to various public policy issues. Cost-benefit analysis, nonmarket valuation, and tax analysis.

PA 5022 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: Kudrle, 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 ;
Instructor: Kleiner, Morris M
Description: Public affairs topics using maximum-likelihood estimation approaches.

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: Introduction to survey research methods. Emphasizes applications to policy and applied research. Research design choices (e.g., descriptive, experimental, case studies), sampling, variable specification, measurement. Conducting interviews, mailed questionnaires. Qualitative techniques.

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: Saavedra, Luz Amparo
Description: Economic data analysis techniques for practitioners in planning and economic development working at local/regional levels. Shift-share analysis, economic base model, base multipliers, location quotient analysis, minimum requirements method, economic impact analysis.
Individual/group projects.

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: Macmillan, Ian Ross
Description: Demographic data analysis, population projection techniques for practitioners in planning, social service delivery, and community development at local/regional levels. Population extrapolation using curve fitting methods, demographic indicators, cohort-component method of population projection, estimation of fertility/migration rates, life tables. Individual/group projects.

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: Macmillan, Ian Ross
Description: Demographic data analysis, population projection techniques for practitioners in planning, social service delivery, and community development at local/regional levels. Population extrapolation using curve fitting methods, demographic indicators, cohort-component method of population projection, estimation of fertility/migration rates, life tables. Individual/group projects.

PA 5010 Management and Governance of Nonprofit Organizations
3 credit(s); prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent ;
Instructor: Wirth-Davis, Michael Eric
Description: Theories, concepts, and real world examples of managerial challenges. Governance systems, strategic management practices, effect of funding environments, management of multiple constituencies. Types of nonprofits using economic/behavioral approaches.

PA 5102 Organization Performance and Change
3 credit(s); prereq 5011 or 5941 or instr consent ;
Instructor: Kiedrowski, P. Jay
Description: This course is an introduction to basic concepts of assessing organizational performance and implementing change to improve the performance of public sector and nonprofit organizations. Understanding major change efforts, measuring outcomes of mission-driven organizations, reflecting on the leadership of change, examining learning organization theory, and reviewing collaborations as a new structure for action are covered using presentations, case-based analysis, expert visits, and discussion. Since organizations are collections of individuals focused on a series of tasks, it is not surprising that they change and alter over time. Yet, for many years, organization scholars and management practitioners did not really focus on understanding or impacting the inevitable process of change within organizations or networks of organizations. They did not think about how leaders can purposively lead organizational change. The reality that organizational life can be influenced -- it can be developed according to some plan or conception about how to best accomplish the tasks at hand? was also often overlooked. This class will address all of these issues. This course uses the theory and operation of organizations from structural and cultural/symbolic perspectives. The concept of a learning organization for continuous organizational change will be used as a uniting concept throughout the course. As in learning organizations, this course is based on discussion. As such, it requires active student participation and respect for all students. Each of us as learners will have an opportunity to reflect on and challenge our current understandings, assumptions, and beliefs so that we can generate improved beliefs and understandings. Key methods for this course are reading, critical reflection, lectures, case studies, and constructive discourse. Desired Student Outcomes: Understanding Important Theories of Organization Performance, Structure, Culture, and Change. Ability to Apply These Theories to Real Situations. Knowledge of the Techniques and Practices Used for the Leadership of Organization Performance, Design, and Change. Development of Higher Order Thinking and Reflection Skills. Development of Listening, Discussion, Writing, Teamwork, and Presentation Skills Style: 40% Lecture, 30% Discussion, 15% Student Presentation, 15% Guest Speakers. Grading: 45% reports/papers, 30% special projects, 25% class participation.

This information is accurate as of 9/15/2008 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.
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.
Style: 40% Lecture, 30% Discussion. Guests, videos, etc.
Grading: 45% mid exam, 45% reports/papers, 10% class participation.

Exam Format: Essay

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 or instr consent;
Instructor: Zhao PhD, Zhirong
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.

Exam Format: Essay

PA 5132 Mediation Training
3 credit(s); prereq Grad or instr consent;
Instructor: Chalmers, Carolyn
Description: This class uses experiential learning to develop mediation skills that meet professional standards of practice as a mediator. Simulations will be drawn from many fields. Conflict theory, mediation ethics, and applicable Minnesota regulations and laws are also covered. Upon successful completion of this course, students will have satisfied the requirements set by the Minnesota Supreme Court for inclusion on the Minnesota Supreme Court?'s roster of neutrals for civil matters. Attendance is essential for this class in order to meet the class hour requirements for inclusion on the Minnesota qualified neutral roster.

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 instr consent;
Instructor: Vaaler, Paul Martin
Description:...

PA 5202W American Cities II: Land Use, Transportation, and the Urban Economy
4 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: GEOG 5372W;
Instructor: Goetz, Edward Glenn

PA 5211 Land Use Planning
3 credit(s); prereq Grad student or instr consent;
Instructor: Cauffman, Robin Renee
Description: Roles of various participants in land development. Investment objectives, effects of regulation. Overview of development process from private/public perspective.

PA 5221 Private Sector Development
3 credit(s); prereq Grad or instr consent;
Instructor: Brown, Peter H
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;
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 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: Selected topics.

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.
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 their home computer citizens can explore with urban planners the spatial, fiscal, design and environmental implications of a variety of what if 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 with 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 5401 Poverty, Inequality, and Public Policy
3 credit(s); prereq Grad or instr consent
Instructor: Hanratty,Maria J
Description: Nature/extent of poverty/inequality in the United States, causes/consequences, impact of government programs/policies. Extent/causes of poverty/inequality in other developing countries.

PA 5412 Aging and Disability Policy
3 credit(s); prereq Grad or instr consent
Instructor: Eustis,Nancy N
Description: Policy debates concerning populations that are aging or disabled. Students learn/practice analyses in context of important health, social, and economic policy debates. Readings on current theory/evidence.

PA 5431 Public Policies on Work and Pay
3 credit(s); prereq [[PA 5031 or equiv], grad student] or instr consent
Instructor: Kleiner,Morris M
Description: Public policies affecting employment, hours of work, and institutions in labor markets. Public programs impacting wages, unemployment, training, collective bargaining, job security, and workplace governance. Policy implications of the changing nature of work.

PA 5490 Topics in Social Policy: Search for 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: Implementation of Social Policy
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent
Instructor: Sandfort,Jodi R.
Description: Selected topics.

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 5590 Topics in Economic and Community Development: Microfinance for Poverty Alleviation
1.5 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent
Instructor: Noponen,Helzi T
Description: Selected topics.

PA 5621 Board Service in Women and Public Policy
S-N only, 1 credit(s); prereq instr consent
Instructor: Kenney,Sally J
Description: Students serve as full members of a board of directors for a women's movement organization. Organizational leadership. How to be an effective board member. Twin Cities feminist nonprofit organizations.

PA 5690 Topics in Women and Public Policy:
Gender/Globalization/Women's Human Rights
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or instr consent
Instructor: Hua,Julietta
Description: Selected topics.

PA 5711 Science and Technology Policy
3 credit(s); prereq Grad student or instr consent
Instructor: Kuzma,Jennifer
Description: Effect of science/technology on relations among nations in such matters as autonomy, national security, economic strength, environment, cultural identity, and international cooperation. Negotiating international agreements with S&T implications.

PA 5721 Energy and Environmental Policy
3 credit(s); prereq Grad or instr consent
Instructor: Wilson,Elizabeth Joan
Description: Impact of energy production/consumption choices on environmental quality, sustainable development, and other economic/social goals. Emphasizes public policy choices for energy/environment, linkages between them.

PA 5790 Topics in Science, Technology, and Environmental Policy: Improving Sci Pol: Tools/Models/Datasets
1.5 credit(s), max credits 9, 3 repeats allowed; prereq Grad or instr consent
Instructor: Husbands Fealing,Kaye
Description: Full title: Strategies to Improve Science Policy: Tools, Models, and Datasets Investments in basic scientific research and technological development have had an enormous impact on innovation, economic growth and societal well-being. Yet, science policy decisions at the federal and state levels of government are typically dominated by advocates for particular scientific fields or missions. Policy decisions are frequently based upon past practice or data trends that may be out of date or have limited relevance to the current situation. We do not have the capacity to predict how best to make and manage future investments so as to exploit the most promising and important opportunities. While some fields benefit from the availability of real-time data and computational models which allow for prospective analyses, science policy does not benefit from a similar set of tools and modeling capabilities. In addition, there is a vigorous debate as to whether analytically-based science policy is possible, given the uncertainty of outcomes in the scientific discovery process. Yet an interdisciplinary and international community of practice is emerging to advance the scientific basis of science policy, through the development of data collection, theoretical frameworks, models and tools, so that we can make future policy decisions based on sound science and informed judgment. This course will develop the foundations of an evidence-based platform of science policy. We will survey the interdisciplinary literature on an immensely policy-relevant topic?the ecology of innovation. Some of the pressing questions that we will address are: What are the critical elements of creativity and innovation? What are the likely futures of the technical workforce and what is its response to different forces of change? What is the impact of globalization on creativity and productivity in the science and engineering fields? Are there significantly different outcomes from federal and private investments in R&D and innovative activities? How does state support for public universities influence the national innovation system?

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: Andreassen,Steven Peter
Description: Selected topics.
PA 5890 Topics in Foreign Policy and International Affairs: US Intelligence Org/Poli/Practice  
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or inst 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, lectures, 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 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/PRI's "The World", National Public Radio and on local television and radio networks to discuss the ongoing war on terrorism. See preliminary syllabus for further information. Grading: 30% mid exam, 30% in-class presentation, 10% class participation, 30% other evaluation. -- Op-Ed piece

Exam Format: One Short answer and one formal presentation

PA 5890 Topics in Foreign Policy and International Affairs: Globalization & the World Food Economy  
3 credit(s), max credits 9, 3 repeats allowed; prereq Grad student or inst 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 inst consent  
Instructor: Boyle, 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: Effective Grantwriting in Public Affairs  
1 credit(s), max credits 6, 12 repeats allowed; prereq Grad student or inst consent  
Instructor: Becker, Sandra J.  
Description: Topics on public policy or planning skills. Topics specified in Class Schedule.

PA 5920 Skills Workshop: Role of the Citizen: Organizing for a Public Life  
1 credit(s), max credits 6, 12 repeats allowed; prereq Grad student or inst consent  
Instructor: Donovan, Dennis Michael  
Description:

PA 5920 Skills Workshop: Foundations of Ethical Practice in Public Affairs  
0.5 credit(s), max credits 6, 12 repeats allowed; prereq Grad student or inst consent  
Instructor: DeCramer, Gary M  
Description: Topics on public policy or planning skills. Topics specified in Class Schedule.

PA 5920 Skills Workshop: Project Planning Workshop  
1 credit(s), max credits 6, 12 repeats allowed; prereq Grad student or inst consent  
Instructor: DeCramer, Gary M  
Description: Topics on public policy or planning skills. Topics specified in Class Schedule.

PA 5920 Skills Workshop: Stakeholder Anal, SWOT Anal, and Causal Mapping  
0.5 credit(s), max credits 6, 12 repeats allowed; prereq Grad student or inst consent  
Instructor: Bryson, John M  
Description: Topics on public policy or planning skills. Topics specified in Class Schedule.

PA 5920 Skills Workshop: Action-Oriented Strategy Mapping  
1 credit(s), max credits 6, 12 repeats allowed; prereq Grad student or inst consent  
Instructor: DeCramer, Gary M  
Description: Topics on public policy or planning skills. Topics specified in Class Schedule.

PA 5941 Leadership for the Common Good  
4 credit(s); prereq Major in public affairs or inst consent  
Instructor: DeCramer, Gary M  
Description: Personal, team, organizational, visionary, political, and ethical aspects of leadership. Emphasizes building/experiencing a learning community.

PA 5941 Leadership for the Common Good  
4 credit(s); prereq Major in public affairs or inst consent  
Instructor: DeCramer, Gary M  
Description: Personal, team, organizational, visionary, political, and ethical aspects of leadership. Emphasizes building/experiencing a learning community.

PA 5990 Topics: Public Affairs--General Topics: Public Affairs Education and the Media  
3 credit(s), max credits 9, 6 repeats allowed; prereq Grad student or inst consent  
Instructor: Schmickle, Sharon Ann A  
Description: General topics in public policy.

PA 8001 Transforming Public Policy  
A-F only, 4 credit(s); pubrec 5941 or inst consent  
Instructor: Bryson, John M  
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 have not received a scholarship awarding group 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 schools (i.e. segregation, meeting graduation requirements, school 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: Minnehaha-Hiawatha Corridor Visioning**
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: Carroll,Anne
Description: The student team will support the public involvement work for the Minnehaha-Hiawatha Corridor Visioning project; the client is the Hennepin County Department of Housing, Community Works, and Transit.

**PA 8081 Capstone Workshop: Green Jobs and Economy Project**
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: Designing an Economic Development Strategy for the Mayors’ Initiative on Green Manufacturing for Minneapolis & Saint Paul. The Mayors Initiative on green manufacturing is an outgrowth of the intense interest in supporting green jobs and a clean energy economy by the Mayors of Minneapolis and Saint Paul – R.T. Rybak and Chris Coleman. This initiative is an effort by the two mayors to encourage a third party alliance (created by the US Steelworker and the Sierra Club), to develop and implement a plan to make the two core cities leaders in green manufacturing especially in green building products, green transportation and renewable energy. From June to December 2007, a develop team and 3 subcommittee working with course instructor and consultant, Candace Campbell, Principal of CDC Associates, have looked at market research, trends and best practices and are crafting a set of recommendations for implementation in 2008 and beyond. This Capstone will continue this work by doing further refinement, research and development on to: 1. help craft the details of a proposed JOBZ-E or GREEN ZONE(S) for a specific industrial /business park are to be delineated after analysis of land uses and existing conditions of opportunity sites in the 2 cities, including potential for each location or set of sites to meet criteria as “green site” to be proposed to the legislature or created by actions of both of the city councils to encourage green manufacturing in each city, 2. design a detailed plan for the development and implementation of financial products and other development assistance that would be made available to green manufacturers in each city meeting particular criteria, 3. assist in the further development of a targeted marketing plan for specific industry segments specified by the Mayors’ Initiative in the final report in December 2007, 4. conduct an analysis of the workforce capacity, needs, gaps and development strategy related to selected “green industries.”

**PA 8081 Capstone Workshop: Refugee Resettlement**
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: World Relief is a member of a consortium of organizations that have individual contracts with the Department of Human Services to do employment counseling and job placement for newly-arrived refugees. The purpose of this Workshop is to help the organization evaluate its employment program, recommend new strategies that would be likely to increase the rate of successful job placements, and to suggest possible sources of external funds for their work. Students will interview refugees, staff of resettlement agencies and experts in the field of refugee resettlement.

**PA 8081 Capstone Workshop: Economic & 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: Nelson,Kris S
Description: Kris Nelson and Lee Munnich will be offering an economic and community development capstone workshop during the 2008 Spring Semester.? In the past Humphrey students have expressed interest in a capstone workshop focused on industry clusters. For the upcoming capstone they will use Michael Porter’s Harvard course on “Microeconomics of Competitiveness: Firms, Clusters and Economic Development”? with a team project focused on an analysis of a state economy and industry cluster within that state.? The clients for these cluster projects will be state economic development agencies.? Delaware, Hawaii, North Dakota, Washington, and Wyoming have signed up as clients.

**PA 8081 Capstone Workshop: Nonprofit-Government Relationships**
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: Sandfort,Jodi R.
Description: This course is a workshop practicum, designed as 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
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 City 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 fdn, 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 8081 Capstone Workshop: 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: 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 8082 Working Group: Technology Policy Research 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: Pol Analysis/ECD/WPP/Social 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: Levison, Deborah
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 scientific/technical papers. 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 and 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 a capstone experience for students completing their Masters? 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 City 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 fdn, 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 8082 Working Group: International 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: Noponen, Helzi T
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 8022 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;
Description: This 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 City 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 fdn, 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 8204 Creating Good Work: Economic and Workforce Development  
A-F only, 4 credit(s); 
Instructor: Schultz, David A 
Description: Job-oriented economic development. Theories on how/why jobs are created. Tools used by communities and economic developers (e.g., tax abatement, infrastructure, job training, entrepreneurship). Strategy, politics, effectiveness.

PA 8302 Applied Policy Analysis  
A-F only, 4 credit(s); prereq Intermediate microeconomics, introduction to econometrics; 
Instructor: Myers Jr, Samuel L 
Description: Design/evaluation of public policies. Emphasizes market/non-market contexts. Microeconomics and welfare economics of policy analysis. Econometric tools for measurement of policy outcomes. Applications to policy problems.

PA 8312 Analysis of Discrimination  
3 credit(s); 
Instructor: Myers Jr, Samuel L 
Description: Introduces students of policy analysis and other applied social sciences to tools for measuring and detecting discrimination in market and nonmarket contexts. Application of modern tools of labor econometrics and race relations research to specific problems of market and nonmarket discrimination.

PA 8991 Independent Study  
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent; 
Instructor: Nathan, 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: 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, Greta 
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: DeCramer, Gary 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: Hua, Julietta 
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.
PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 repeats allowed; prereq instr consent;
Instructor: Myers Jr, Samual 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: Munnich Jr, Lee William
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: Brandl, John E
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: Kudrlie, 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: 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: Slotterback, Carissa Schively
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: Noponen, Helzi 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: 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;
Public Health

A-302 Mayo (Box 197)

PUBH 1003 Alcohol and College Life
OPT No Aud, 1 credit(s); prereq Fr or soph or PSEO;
Instructor: Rothenberger Ill, James Henry
Description: This course provides first year students with unbiased factual information about how alcohol and drug use affects college life. It reinforces personal prevention strategies and aims to maximize student and campus safety. Practical hints and tips about how to succeed socially and academically are presented in the context of research and from other students’ personal experiences. NOTE: This is not an independent study course; there are due dates for the assignments and quizzes. For more information about this course please visit our web-site at <http://www.epi.umn.edu/academic/syllabi.shtm>
Style: 100% Web Based. Distance learning. Approx. 3 hours of computer interaction per week.
Grading: 20% reports/papers, 50% quizzes, 30% written homework. Points deducted for late work. Limited amount of late work accepted. Up to 10 points of extra credit may be earned.

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 <http://www.epi.umn.edu/academic/syllabi.shtm>
Style: 100% Lecture.
Grading: 40% final exam, 10% reports/papers, 50% other evaluation. two midterm exams (25% each)
Exam Format: multiple choice

PUBH 3005 Fundamentals of Alcohol and Drug Abuse for Teacher Education
1 credit(s); prereq Undergrad in agricultural educ or business/marketing educ or career/technical educ or foundations of educ or [kinesiology, pre-PE] or technology educ or music educ; Credit will not be granted if credit has been received for: PUBH 3003;
Instructor: Rothenberger Ill, James Henry
Description: The course is entirely online, including all readings, quizzes and assignments. There are specific due dates for quizzes and assignments. This course is meant for teaching majors, and the primary assignment is the development of a detailed lesson plan. The lesson plan assignment assumes that students have had some educational methods coursework. The assignment guidelines are specific, but some students without pedagogy coursework have struggled with the assignment in the past.
Style: Online lessons, quizzes and assignments. Students do not need to be online at specific times, but ARE REQUIRED TO MEET QUIZ AND ASSIGNMENT DUE DATES.
Grading: 10% reports/papers, 30% special projects, 60% quizzes.
Exam Format: multiple choice

PUBH 3040 Dying and Death in Contemporary Society: Implications for Intervention
2 credit(s); prereq Jr or sr or instr consent; Credit will not be granted if credit has been received for: PUBH 6040;
Instructor: Rothenberger Ill, James Henry
Description: Basic background information on concepts, attitudes, ethics, and lifestyle management in relation to dying, death, grief, and bereavement. Emphasis will be placed on the intervention and educational aspects of the above topics for community health and helping professionals and educators. The full syllabus for the course, including lecture outlines, textbook and exam information can be found at the website listed below.
Style: 95% Lecture. one visit to a funeral home
Grading: 30% final exam, 30% reports/papers, 20% other evaluation. on each of two mid-term exams
Exam Format: short answer/essay

PUBH 3093 Directed Study: Public Health
1-4 credit(s), max credits 80, 20 repeats allowed;
Instructor: Allen, Ryan Patrick
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 3093 Directed Study: Public Health
1-4 credit(s), max credits 4, 4 repeats allowed; prereq instr consent ;
Instructor: Rybicki, Sarah Louise
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: French, Simone A
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; 30% final exam, 30% reports/papers, 30% other evaluation. on each of two mid-term exams
Exam Format: short answer/essay

PUBH 3801 Health Economics and Policy
3 credit(s), max credits 80, 20 repeats allowed;
Instructor: Shaneck PhD, Stanton Barry
Description: Student may contact the instructor or department for information.

PUBH 3801 Health Economics and Policy
3 credit(s), max credits 4, 4 repeats allowed; prereq instr consent ;
Instructor: Karaca Mardin, Pinar
Description: Student may contact the instructor or department for information.

PUBH 6000 Topics: Community Health Education: Obesity & Eating Disorders: Treat., Prev. & Policy
2 credit(s), max credits 80, 20 repeats allowed;
Instructor: French, Simone A
Description: Student may contact the instructor or department for information.

PUBH 6003 Fundamentals of Alcohol and Drug Abuse
PUBH 6040 Dying and Death in Contemporary Society: Implications for Intervention

2 credit(s); prereq [Grad or professional school] student or instr consent; Credit will not be granted if credit has been received for: PUBH 3040;
Instructor: Rothenberger, James Henry
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: 20% Lecture, 10% Film/Video, 30% Small Group Activities, 40% Guest Speakers.
Grading: 70% written homework, 30% class participation.

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 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: 20% Lecture, 10% Film/Video, 30% Small Group Activities, 40% Guest Speakers.
Grading: 70% written homework, 30% class participation.

PUBH 6048 Legislative Advocacy Skills for Public Health

A-F only, 3 credit(s); prereq 6078, 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 supportive of 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 I

A-F only, 3 credit(s); prereq Community health education 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. Will 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: Student may contact the instructor or department for information.

PUBH 6074 Mass Communication and Public Health

This information is accurate as of 9/15/2008 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 6101 Environmental Health
A-F only, 2 credits; prereq Public health [MPH or MHA or certificate] student or instr consent
Instructor: Greaves, Ian A
Description: Student may contact the instructor or department for information.

PUBH 6102 Issues in Environmental and Occupational Health
A-F only, 2 credits; 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 credits; 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 "right" 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 review public law that focuses on the role of government in protecting the safety and well being of citizens. Review of 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. In addition, we will review law that protects individuals against class based discrimination and creates a "right" to work. 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. 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.

Grading: 70% reports/papers, 20% written homework, 10% 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 ensuring 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.

Grading: 70% reports/papers, 20% written homework, 10% in-class presentation.

PUBH 6121 Topics: Injury Prevention in the Workplace, Community, and Home
1-2 credits(s), max credits 2, 1 repeat allowed; prereq [6120, 6320 or 6341] or instr consent
Instructor: Gerberich PhD, Susan G
Description: Student may contact the instructor or department for information.

PUBH 6122 Seminar: Safety in the Workplace
1 credit(s);
Instructor: Gerberich PhD, Susan G
Description: Student may contact the instructor or department for information.

PUBH 6130 Occupational Medicine: Principles and Practice
2-3 credits(s), max credits 3, 1 repeat allowed; prereq Environmental health major or instr consent
Instructor: Greaves, Ian A
Description: Student may contact the instructor or department for information.

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: Student may contact the instructor or department for information.

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 6161 Regulatory Toxicology
2 credit(s); prereq Background in toxicology or pharmacology or related field is recommended;
Instructor: Wattenberg, Elizabeth Vaughn
Description: Student may contact the instructor or department for information.

PUBH 6173 Exposure to Physical Agents
2 credit(s); prereq [Environmental health major, [industrial hygiene specialty or equiv]] or instr consent;
Instructor: Simcik, 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 6191 Air Pollution
A-F only, 3 credit(s); prereq [General, organic chemistry] or instr consent;
Instructor: Simcik, Matt
Description: Student may contact the instructor or department for information.

PUBH 6200 Topics: Public Health Practice: National Symposium on Health Care Reform
1 credit(s), max credits 80, 20 repeats allowed;
Instructor: Hart MD, James F
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 6282 Emerging Infectious Disease: Current Issues, Policies, and Controversies
3 credit(s); prereq instr consent;
Instructor: Osterholm, Michael T
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 6320 Fundamentals of Epidemiology
A-F only, 3 credit(s); prereq AHC or health journalism student or instr consent;
Instructor: Lazovich, DeAnn
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 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 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 6390 Topics: Epidemiology: Social Epidemiology
2 credit(s), max credits 80, 20 repeats allowed;
Instructor: Oakes,J Michael
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 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: Basu,Saonil
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 6535 Cost Accounting for Healthcare Services
A-F only, 3 credit(s);
Instructor: Felton,Mark
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, 6561, 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 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: Hillestad,Steven G
Description: Student may contact the instructor or department for information.

PUBH 6557 Health Finance I
2 credit(s); prereq [[Health care admin or public health admin/policy major], familiarity with computerized spreadsheets] or instr consent ;
Instructor: Riley,William J
Description: Student may contact the instructor or department for information.

PUBH 6558 Health Finance II
4 credit(s); prereq [[Health care admin or PubH admin/policy] student, familiarity with computerized spread-sheets]] or instr consent ;
Instructor: Salley,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: The Nature of Clinical Care
2 credit(s); max credits 20, 5 repeats allowed; prereq Health care admin student or instr consent;
Instructor: Mosser MD,Gordon
Description: Student may contact the instructor or department for information.

PUBH 6570 Topics: Health Care Administration
2 credit(s); max credits 20, 5 repeats allowed; prereq Health care admin student or instr consent;
Instructor: Pothoff,Sandra Jean
Description: Student may contact the instructor or department for information.

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, 3 credit(s); prereq Health care admin student;
Instructor: Feinwachs,David
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 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: McBean,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 6723 Lean Management in Health Care
1 credit(s); prereq instr consent;
Instructor: Wholey,Douglas R
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 6726 Medical Device Industry: Business and Public Policy
3 credit(s); prereq MPH or MHA or grad student or instr consent;
Instructor: Connor,Robert Alan
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 certificate 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 6730 International Comparative Health Systems
2 credit(s); prereq Public health MPH or environmental health [MS or PhD] or health services research/policy/administration [MS or PhD] or epidemiology PhD or clinical research MS or instr consent;
Instructor: Blewett,Lynn Ann
Description: Student may contact the instructor or department for information.

PUBH 6732 Topics and Methods in Global Health Assessment
2 credit(s); prereq [5705 or Concurrent registration is required (or allowed) in 5705], 5730, grad course in epidemiology, [public health MPH or environmental health [MS or PhD] or health services research/policy/administration [MS or PhD] or epidemiology PhD or clinical research MS] or instr consent;
Instructor: McBean,Alexander Marshall
Description: Student may contact the instructor or department for information.

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: Garrett,Joyce Eline
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: Garrett,Joyce Eline
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 certificate student or dentistry MS or environmental health MS or PhD major or instr consent;
Instructor: Begun,James Warren
Description: Equipds 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: 100% Web Based.
Grading: 15% mid exam, 10% special projects, 30% quizzes, 30% written homework, 15% reflection paper.

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PUBH 6752 Public Health Management  
A-F only, 3 credit(s); prereq [Public health [MPH or certificate] student or [environmental health [MS or PhD] or [health services research, policy/admin [MS or PhD]]] major or instr consent;  
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, Kimberley O  
Description: Student may contact the instructor or department for information.

PUBH 6765 Continuous Quality Improvement: Methods and Techniques  
3 credit(s);  
Instructor: Riley, William J  
Description: Student may contact the instructor or department for information.

PUBH 6800 Topics: Health Services Research and Policy: From Eugenics to Deadly Medicine and Back  
1 credit(s), max credits 80, 20 repeats allowed;  
Instructor: Allison, Kirk Charles  
Description: Student may contact the instructor or department for information.

PUBH 6800 Topics: Health Services Research and Policy: From Eugenics to Deadly Medicine and Back  
2 credit(s), max credits 80, 20 repeats allowed;  
Instructor: Allison, Kirk Charles  
Description: Student may contact the instructor or department for information.

PUBH 6803 Conducting a Systematic Literature Review  
OPT No Aud, 2 credit(s); prereq Basic knowledge of epidemiology;  
Instructor: Kane, Robert L  
Description: Student may contact the instructor or department for information.

PUBH 6808 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: Kurtz, Karen M  
Description: Student may contact the instructor or department for information.

PUBH 6835 Principles of Health Policy  
2 credit(s); prereq [Pub hlth [MPH or certificate] or pub affairs MPA or healthcare admin MHA or [health serv research, policy/admin [MS or PhD]]] student or instr consent;  
Instructor: Foote, Susan Bartlett  
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 6861 Health Insurance  
A-F only, 2 credit(s); prereq Microecon theory course or instr consent;  
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: Radosевич, David M  
Description: Student may contact the instructor or department for information.

PUBH 6866 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  
2 credit(s); prereq Public health nutrition major or instr consent;  
Instructor: Himes, John H  
Description: Student may contact the instructor or department for information.

PUBH 6933 Nutrition and Chronic Diseases  
2 credit(s); prereq [6320 or 6330 or 6341 or Concurrent registration is required (or allowed) in 6320 or Concurrent registration is required (or allowed) in 6330 or Concurrent registration is required (or allowed) in 6341], [6414 or 6450]] 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  
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Spring 2008

PUBH 7194 Master's Project: Environmental Health
S-N only, 1-3 credit(s), max credits 5, 5 repeats allowed;
prereq Environmental health major, instr consent;
Instructor: Swackhammer, Deborah I.
Description: Student may contact the instructor or department for information.

PUBH 7194 Master's Project: Environmental Health
S-N only, 1-3 credit(s), max credits 5, 5 repeats allowed;
prereq Environmental health major, instr consent;
Instructor: Ramachandran, Gunumurthy
Description: Student may contact the instructor or department for information.

PUBH 7194 Master's Project: Environmental Health
S-N only, 1-3 credit(s), max credits 5, 5 repeats allowed;
prereq Environmental health major, instr consent;
Instructor: Peterson, Lisa Ann
Description: Student may contact the instructor or department for information.

PUBH 7198 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 repeats allowed;
prereq Environmental health major, instr consent;
Instructor: Maldonado, George
Description: Student may contact the instructor or department for information.

PUBH 7198 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 repeats allowed;
prereq Environmental health major, instr consent;
Instructor: Raynor, Peter Cameron
Description: Student may contact the instructor or department for information.

PUBH 7198 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 repeats allowed;
prereq Environmental health major, instr consent;
Instructor: Alexander, Bruce H
Description: Student may contact the instructor or department for information.

PUBH 7198 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 repeats allowed;
prereq Environmental health major, instr consent;
Instructor: Swackhammer, Deborah I.
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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 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 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: Ramachandran, Gurumurthy
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: Peterson, Lisa Ann
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: Maldonado, George
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: Raynor, Peter Cameron
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: Alexander, Bruce H
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: Toscano Jr, William A
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: Singer, Randall
Description: Student may contact the instructor or department for information.

PUBH 7200 Topics: Public Health Practice: Informatics in Global Health
OPT No Aud, 1 credit(s), max credits 20, 20 repeats allowed;
Instructor: Westra, Bonnie L.
Description: Student may contact the instructor or department for information.

PUBH 7200 Topics: Public Health Practice: Globalization & Health: Challenges & Perspectives
OPT No Aud, 1 credit(s), max credits 20, 20 repeats allowed;
Instructor: Toscano Jr, William A
Description: The purpose of this course is to expand understanding of both climate and health through the study of the unfolding and complex relationships between public health problems and global climate change. Day 1 focuses on the influence of global climate change on peace and war, common diseases, and women's health. Day 2 includes case studies from Africa, Asia and Eastern Europe that examine public health problems exacerbated by climate change. The class concludes with a panel discussion of strategies and interventions to address the damage.
Style: 75% Lecture, 25% Discussion.
Grading: 50% reports/papers, 50% class participation.

PUBH 7200 Topics: Public Health Practice: Geothermal Energy and Environmental Hotspots
OPT No Aud, 1 credit(s), max credits 20, 20 repeats allowed;
Instructor: Toscano Jr, William A
Description: Topics for this course include global warming and its impact on human and animal health; air and water quality related to geothermal energy; and energy resources for the future from a global perspective. The evening of Day 1 will include a discussion of environmental toxicants and how they affect global climate change. A field trip on Day 2 includes a tour of the Golden Circle, which offers views of a geothermally active valley with geysers, colorful springs and steam vents; a national park with historical and natural beauty features; and a visit to a geothermal power plant. The course concludes on the morning of Day 3 with a visit to the Blue Lagoon, a world famous geothermal spa amidst a variety of lava formations.
Style: 20% Lecture, 80% Field Trips.
Grading: 90% special projects, 10% attendance.

PUBH 7250 Designing and Conducting Focus Group Interviews
OPT No Aud, 1 credit(s);
Instructor: Krueger, Richard 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: Patterson, Joan
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: Patterson, Joan
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: Nelson, Toben F
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; prerequisite Epidemiology major, instr consent;
Instructor: Miller, Michael B
Description: Student may contact the instructor or department for information.

PUBH 7394 Master's Project: Epidemiology
1-6 credit(s), max credits 6; prerequisite Epidemiology MPH student, instr consent;
Instructor: Duval, Sue
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; prerequisite Epidemiology major, instr consent;
Instructor: Bender, Jeff Blaine
Description: Student may contact the instructor or department for information.

PUBH 7402 Biostatistics Modeling and Methods
4 credit(s); prerequisite 7401; intended for PhD students in health sciences;
Instructor: Bergemann, Tracy L
Description: Student may contact the instructor or department for information.

PUBH 7406 Biostatistics: ANOVA and Design
4 credit(s); prerequisite 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); prerequisite 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); prerequisite 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); prerequisite [[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 7440 Introduction to Bayesian Analysis
3 credit(s); prerequisite [[7405, 7406] or [Stat 5101, 5102] or equiv], [public health MPH or biostatistics or statistics] grad student or instr consent;
Instructor: Banerjee, Sudipto
Description: Student may contact the instructor or department for information.

PUBH 7470 Statistics for Translational and Clinical Research
3 credit(s); prerequisite [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; prerequisite Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent;
Instructor: Neaton, Jim
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; prerequisite Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent;
Instructor: Punyk, Jody
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; prerequisite Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent;
Instructor: Connell, John E
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; prerequisite Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent;
Instructor: Hodges, James Steven
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; prerequisite Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent;
Instructor: Connett, John E
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; prerequisite Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent;
Instructor: Punyk, Jody
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; prerequisite Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent;
Instructor: Li, Na
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; prerequisite Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent;
Instructor: Connell, John E
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; prerequisite Biostatistics major, instr consent Biostatistics major, instr consent Biostatistics major, instr consent;
Instructor: Li, Na
Description: Student may contact the instructor or department for information.

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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: Guo,Hongfai  
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: Banerjee,Sudipto  
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: Basu,Saonli  
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: Huppler Hullsiek,Katherine  
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 7596 Clerkship in Health Care Administration  
A-F only, 2 credit(s); prereq 6544, health care admin student;  
Instructor: Grant,Leslie Alan  
Description: Student may contact the instructor or department for information.

PUBH 7594 Independent Study: Maternal and Child Health  
1-4 credit(s), max credits 4, 4 repeats allowed; prereq Maternal/child health major, instr consent ;  
Instructor: Patterson,Joan  
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: Oberg MD,Charles N  
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: Oberg MD,Charles N  
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 7794 Master’s Project: Public Health Administration and Policy  
S-N only, 2-3 credit(s), max credits 3, 1 repeat allowed; prereq Public health administration/policy major, instr consent ;  
Instructor: Foote,Susan Bartlett  
Description: Student may contact the instructor or department for information.

PUBH 7796 Field Experience: Public Health Administration and Policy  
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed; prereq Public health administration/policy major, instr consent ;  
Instructor: Davern,Michael E  
Description: Student may contact the instructor or department for information.

PUBH 7894 MS Plan B Project in Health Services Research, Policy, and Administration  
S-N only, 2 credit(s), max credits 4; prereq HSRPConcurrent registration is required (or allowed) in A MS Plan B student, instr consent ;  
Instructor: Call PhD,Kathleen Thiede  
Description: Student may contact the instructor or department for information.

PUBH 7894 MS Plan B Project in Health Services Research, Policy, and Administration  
S-N only, 2 credit(s), max credits 4; prereq HSRPConcurrent registration is required (or allowed) in A MS Plan B student, instr consent ;  
Instructor: Virnig,Beth A.  
Description: Student may contact the instructor or department for information.
**PUBH 7984 MS Plan B Project in Health Services Research, Policy, and Administration**
S-N only, 2 credit(s), max credits 4; prereq HSRP Concurrent registration is required (or allowed) in A MS Plan B student, instr consent;
Instructor: Nyman, John A.
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 5104;
Instructor: Wattenberg, Elizabeth Vaughan
Description: Student may contact the instructor or department for information.

**PUBH 8194 Directed Research: Environmental Health**
1-6 credit(s), max credits 6, 1 repeat allowed; prereq instr consent;
Instructor: Alexander, Bruce H
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: Student may contact the instructor or department for information.

**PUBH 8400 Topics: Biostatistics: Hierarchical and Richly Parametrized Linear Models**
3 credit(s), max credits 20, 20 repeats allowed;
Instructor: Hodges, James Steven
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: Li, Na
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: Feldman, Roger D
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: Carlin PhD, Bradley Paige
Description: Student may contact the instructor or department for information.

PUBH 8494 Directed Research: Biostatistics
S-N only, 1-4 credit(s), max credits 4, 4 repeats allowed; prereq instr consent; Instructor: Hodges, James Steven
Description: Student may contact the instructor or department for information.

PUBH 8494 Directed Research: Biostatistics
S-N only, 1-4 credit(s), max credits 4, 4 repeats allowed; prereq instr consent; Instructor: Luo, Xianghua
Description: Student may contact the instructor or department for information.

PUBH 8813 Measurement of Health-Related Social Factors
A-F only, 3 credit(s); prereq Intro stat course, understanding of simple correlations or instr consent; Instructor: Rockwood, Todd H
Description: Student may contact the instructor or department for information.

PUBH 8820 Health Economics I
A-F only, 3 credit(s); prereq One course each in intermediate microeconomics, calculus, intro to linear algebra; Instructor: Feldman, Roger D
Description: Student may contact the instructor or department for information.

PUBH 8821 Health Economics II
A-F only, 3 credit(s); prereq 8820 or instr consent; Instructor: Town, Robert James
Description: Student may contact the instructor or department for information.

PUBH 8831 Writing for Research
OPT No Aud, 2 credit(s); prereq 8830; Instructor: Kane, Robert L
Description: Student may contact the instructor or department for information.

PUBH 8893 Directed Study: Health Services Research, Policy, and Administration
1-3 credit(s), max credits 3, 3 repeats allowed; prereq HSRPA grad student, instr consent; Instructor: Blewett, Lynn Ann
Description: Student may contact the instructor or department for information.

PUBH 8893 Directed Study: Health Services Research, Policy, and Administration
1-3 credit(s), max credits 3, 3 repeats allowed; prereq HSRPA grad student, instr consent; Instructor: McCullough, Jeffrey S
Description: Student may contact the instructor or department for information.

PUBH 8893 Directed Study: Health Services Research, Policy, and Administration
1-3 credit(s), max credits 3, 3 repeats allowed; prereq HSRPA grad student, instr consent; Instructor: Kuntz, Karen M
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: Rockwood, Todd H
Description: Student may contact the instructor or department for information.

Radiation Therapy
20 Classroom Office Building

RTT 3551 Radiation Oncology Physics
A-F only, 3 credit(s); prereq BAS RTT student; Instructor: Blackwell, Charles Robert
Description: The course includes general physics principles, property of radiation, radiation production and control, measurement of emitted radiation, attenuation, and transmission of radiation. The specific characteristics and construction of the various treatment units are included along with a detailed analysis of the structure of matter and the principles of radioactivity and decay. Students learn about the use of sealed sources to place or implant in tumors, comparison of low dose rate and high dose rate brachytherapy and permanent implant techniques. In cooperation with Mayo School of Health Sciences, Rochester.

RTT 3581 Principles and Practices of Radiation Therapy I
A-F only, 4 credit(s); prereq BAS RTT student; Instructor: Bussman-Yeakel, Leila Ann
Description: Introduces the student to the management and treatment of the oncology patient. Students will learn the histology, etiology, anatomy, presenting symptoms, diagnosis, staging and the treatment regimens utilized (surgery, radiation, chemotherapy) for each major cancer site. Particular emphasis is given to the specific radiation therapy treatment approach used for each cancer site. The technical approach: simulation procedures, patient positioning and immobilization concerns, planning requirements, treatment techniques, electronic and manual radiation record keeping and management of side effects will be included. This course is designed to give the student further information in order to integrate classroom material with clinical practicums. Laboratory sessions in the simulator are conducted using an anthropomorphic phantom. Disease sites discussed in this first course will include treatment regimens that are of simple to intermediate complexity in terms of dosimetric planning issues. In cooperation with Mayo School of Health Sciences, Rochester.

RTT 3701 Advanced Radiobiology and Radiation Protection
A-F only, 3 credit(s); prereq RTT BAS student; Instructor: Bussman-Yeakel, Leila Ann
Description: Content is designed to present the basic and more advanced principles of radiobiology, radiation protection, and safety as it relates to Radiation Oncology, including the interactions of radiation with cells, tissues and the body as a whole and resultant biophysical events. Discussion includes theories and principles of tolerance dose, time-dose relationships, fractionation schemes and the relationship to the clinical practice of radiation therapy. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are incorporated, along with specific responsibilities of the radiation therapist. In cooperation with Mayo School of Health Sciences, Rochester.

Recreation Resource Management
115 Green Hall

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 5201;
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, guests, inclass activities, videos
Grading: 40% mid exam, 20% final exam, 15% reports/papers, 20% special projects, 5% class participation. 2 exams plus final, individual case study, group paper with presentation
Exam Format: exams use a combination of formats

RRM 4232W Managing Recreational Lands
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: RRM 5232; Meets CLE req of Environment Theme; meets CLE req of Writing Intensive;
Instructor: Anderson PhD,Dorothy Helen
Description: Student may contact the instructor or department for information.

RRM 4293 Directed Study
1-5 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Anderson PhD,Dorothy Helen
Description: Student may contact the instructor or department for information.

RRM 4293 Directed Study
1-5 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Schneider, Ingrid Eleanor
Description: Student may contact the instructor or department for information.

RRM 4293 Directed Study
1-5 credit(s), max credits 12, 12 repeats allowed; prereq instr consent;
Instructor: Messer, Cynthia Cosdon
Description: Student may contact the instructor or department for information.

RRM 5201 Introduction to Travel and Tourism
A-F only, 3 credit(s); prereq Grad student or instr consent; 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, guests, inclass activities, videos
Grading: 40% mid exam, 20% final exam, 15% reports/papers, 20% special projects, 5% class participation. 2 exams plus final, individual case study, group paper with presentation
Exam Format: exams use a combination of formats

RRM 5232 Managing Recreational Lands
A-F only, 4 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: RRM 4232W;
Instructor: Anderson PhD,Dorothy Helen
Description: This course is designed to provide students with an understanding of the principles and practices of recreation management of wildlands. Specific objectives are to: 1) understand federal recreation land management policy and organization, 2) develop an understanding of conceptual frameworks for recreation resource and visitor use management, 3) develop management tools to reduce recreation related impacts and conflicts, and 4) demonstrate an understanding of course material by developing a recreation management plan and a resource impact tool to monitor visitor caused impacts to recreation areas.
Style: 40% Lecture, 35% Discussion, 15% Laboratory.
Grading: 22% mid exam, 12% final exam, 17% reports/papers, 20% special projects, 5% in-class presentation, 14% class participation, 10% other evaluation, field work
Exam Format: essay

Recreation, Park, and Leisure Studies
220 Cooke Hall

REC 1501 Orientation to Leisure and Recreation
3 credit(s);
Instructor: Walsh, Mike
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: Feldman, Harvey M
Description: Principles/practices of financing/managing leisure service agencies in public/private sector.

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 roles 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 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 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/effected 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: Feldman, Harvey M
Description: Supervised field experience for pre-professional students in selected agencies. This is essentially a full-time continuing experience in a leisure services assignment. The internship placement is related to the student’s option area. The internship is an in-depth supervised laboratory experience where the student can implement and test her/his classroom learning. Objectives and Outcomes: 1) To augment and reinforce academic course work by applying academic knowledge to a practical setting. 2) To provide students with experience in program operation, administration and supervisory duties as well as direct service to clients. 3) To develop leisure service management and practice skills and abilities under the guidance of a professional mentor. 4) To assess the students abilities in a range of leisure service management and practice skills. 5) To observe, develop and practice ethical and professional behaviors in a leisure service organization setting. 6) To understand and apply organizational techniques to foster effective relationships with clients, staff, management and governing bodies. 7) To develop an understanding of critical issues in leisure services.
Style: Fieldwork
Grading: 100% other evaluation. field work at recreation agency

**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: Feldman, Harvey M
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, 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, 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
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 agencies; c) identify areas of major contemporary issues in recreation land policy and management. Grading: 20% final exam, 30% reports/papers, 30% in-class presentation, 20% class participation. Exam Format: Take home essay.

REC 5211W Comprehensive Therapeutic Recreation Services Development and Management
4 credit(s); prereq 5211 or instr consent; rec major; Meets CLE req of Writing Intensive;
Instructor: Magnuson, Connie
Description: General Aim of the Course: This course will prepare students to: a) Develop a written plan of operation for recreation therapy/therapeutic recreation departments that includes patient/client management and program management components; b) Demonstrate their understanding of parameters and techniques of quality intervention A. Employ the TR process (continuous cycle of assessment, goal setting with explicit objectives, selecting appropriate interventions/opportunities, program implementation planning and execution, outcome based evaluation, new/ revised plan setting) B. Synthesize information to create a systematic comprehensive program plan and illustrated in a case study. III. Specific Objectives of the Course Upon successful completion of the course, students will be able to: A. Articulate the role and function of health care delivery systems and describe therapeutic recreation/recreation therapy as a component of health care B. Select appropriate assessment tools, demonstrate the ability to conduct them, analyze and interpret results C. Design individual and small group plans for treatment, leisure education, and for recreation participation including the selection of appropriate therapeutic interventions D. Demonstrate knowledge of the theories and techniques of therapeutic intervention used in treatment and in leisure education with individuals and groups. E. Identify reasonable outcomes for a variety of interventions delivered to meet the needs of differing populations in a range of settings F. Demonstrate assistive techniques and the use of assistive devices/equipment G. Demonstrate understanding of the need and ability to respond/patient/client problems H. Identify and recognize a need to change approach or terminate intervention H. Demonstrate knowledge of responsibilities for program management and application of techniques for patient/client management I. Demonstrate knowledge of regulatory agents and the ability to demonstrate how to comply with professional, legal and regulatory standards. J. Demonstrate understanding of principles and practices, and the ability to design and implement plans for safety, emergency, and health risk management. Grading: 70% written homework, 30% class participation.

REC 5231 Therapeutic Recreation and Diagnostic Groups
A-F only, 3 credit(s); prereq 5211 or instr consent; required;
Instructor: Magnuson, Connie
Description: Course Description: This course is designed to examine current information about the characteristics of illness and disabling conditions within four major categories and the limitations on functioning for people with those conditions. The focus is on the role of leisure in the preservation of mental, physical and psychosocial health, and the role of therapeutic activity in ameliorating the effects of illness and disability, and to minimizing limitations on individual potential. Purposeful recreation intervention is provided in treatment, in leisure education, and by providing opportunities for leisure behavior in a controlled environment. II. Course Content: A. Develop working knowledge of impairments and disabling conditions that affect physical, mental, emotional and psychosocial functioning across the lifespan. B. Knowledge of the etiology, pathology, symptoms and anticipated resulting behaviors and responses to the disease or adjustment processes. C. Role of leisure in holistic health and wellness including disease prevention and health promotion and maintenance across the life span. D. Barriers to healthy functioning (e.g. societal values, beliefs, social, political/public policy, ethics, financial) and anticipated consequences E. Professional service issues specific to particular impairments: Facility or community based environments (e.g. cultural perspectives; living arrangements, decision making, full disclosure, informed consent, and independence; sexuality, friendships and intimacy; access to appropriate care, finances, caregiver/staff/family burn out, abused/abuser, safety/risk, and privacy/confidentiality). F. Multiculturalism in therapeutic recreation service. G. Leisure Education content and techniques for individuals and family members. H. TR services planning for individual and small groups (APIE) I. Knowledge of and ability to select appropriate assistive devices and techniques, adaptive equipment and program adaptations. Grading: 40% reports/papers, 30% in-class presentation, 30% other evaluation. Practicum experience-30 hours.
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); prereq 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 presented with opportunities to demonstrate how youth learn through the use of various youth development concepts and initiatives (i.e.: learning styles, 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:** 30% Discussion, 30% Small Group Activities, 10% Student Presentation, 5% Guest Speakers, 25% Service Learning.

**REC 5801 Legal Aspects of Sport and Recreation**  
A-F only, 4 credit(s); prereq 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**  
1 credit(s), max credits 12, 12 repeats allowed;  
Instructor: Bruett, JT  
**Description:** This course aims to provide an in-depth examination of the contradictory and demanding environment of college athletics and seeks to enhance student understandings of 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); prereq MEd or grad student or instr consent; Credit will not be granted if credit has been received for: KIN 5981;  
Instructor: Kihi, Lisa A  
**Description:** Defines/reviews various types of research in exercise/sport science, physical education, and recreation studies. Qualitative research, field studies, and methods of introspection as alternative research strategies to traditional scientific paradigm.

**REC 5992 Readings: Recreation**  
1-3 credit(s), max credits 9, 9 repeats allowed; prereq REC major, instr consent;  
Instructor: Buyse, Jo Ann  
**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: Aboy, 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: 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; prereq REC major, instr consent;  
Instructor: Ross, Stephen D  
**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 5992 Readings: Recreation**  
1-3 credit(s), max credits 9, 9 repeats allowed; prereq REC major, instr consent;  
Instructor: Russell, Keith C.  
**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: 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 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: Ross, Stephen D
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: Russell, Keith C
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: Allison JD, Rayla
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: 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: 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: Russell, Keith C
Description: Supervised experiences in program operation, management, administration, and supervisory duties in therapeutic recreation, leisure services, or sport management.

REC 8320 Seminar: Theoretical Perspectives in Leisure Behavior
A-F only, 3 credit(s); prereq 5101 or instr consent;
Instructor: Russell, Keith C
Description: Major theoretical paradigms and empirical findings, where appropriate, from leisure studies in particular and social sciences in general.

REC 8980 Graduate Research Seminar in Recreation, Park, and Leisure Studies
S-N only, 1-3 credit(s), max credits 3, 1 repeat allowed; prereq 5981, EPsy 5261 or instr consent;
Instructor: Russell, Keith C
Description: Analyzing, designing, and reporting on research problems in leisure studies.

REC 8995 Research Problems in Recreation, Park, and Leisure Studies
S-N only, 1-4 credit(s), max credits 16, 16 repeats allowed; prereq instr consent;
Instructor: Kane, Mary Jo
Description: Individual scholarly research.

REC 8995 Research Problems 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 8995 Research Problems 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.

REC 8995 Research Problems in Recreation, Park, and Leisure Studies
S-N only, 1-4 credit(s), max credits 16, 16 repeats allowed; prereq instr consent;
Instructor: Russell, Keith C
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;
Schedule.

This information is accurate as of 9/15/2008 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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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: Di Fabio, Richard P 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: Stern PhD, Erica Beth 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: Thompson PhD, LaDora V 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: Lowe, Dawn Annette 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: Kukulka, Carl 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: Kukulka, Carl 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: Stern PhD, Erica Beth 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: Thompson PhD, LaDora V 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: Ludewig, Paula M Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Kimbery, Teresa Jacobson Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Di Fabio, Richard P Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Stern PhD, Erica Beth Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Thompson PhD, LaDora V Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Ludewig, Paula M Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Lowe, Dawn Annette Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 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.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Stern PhD, Erica Beth Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Thompson PhD, LaDora V Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Ludewig, Paula M Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Lowe, Dawn Annette Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 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.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Stern PhD, Erica Beth Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Thompson PhD, LaDora V Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Ludewig, Paula M Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Lowe, Dawn Annette Description: Student may contact the instructor or department for information.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 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.

RSC 8170 Special Topics in Rehabilitation Science A-F only, 1 credit(s), max credits 3, 3 repeats allowed; prereq [Rehabilitation science student or program permission], instr consent; Instructor: Stern PhD, Erica Beth Description: Student may contact the instructor or department for information.
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 PhD, Virgil G
Description: Student may contact the instructor or department for information.

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.

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: Ludewig, Paula M
Description: Student may contact the instructor or department for information.

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: Lowe, Dawn Annette
Description: Student may contact the instructor or department for information.

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.

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: Mathiowetz PhD, Virgil G
Description: Student may contact the instructor or department for information.

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: Kukulka, Carl G
Description: Student may contact the instructor or department for information.

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.

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: Lowe, Dawn Annette
Description: Student may contact the instructor or department for information.

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: Kukulka, Carl G
Description: Student may contact the instructor or department for information.

RSC 8282 Problems in Human Movement
A-F only, 4 credit(s); prereq [Rehabilitation science student or program permission], instr consent; Instructor: Kimberley, Teresa Jacobson
Description: Student may contact the instructor or department for information.
REL 1001 Introduction to the Religions of the World
3 credit(s); Meets CLE req of International Perspectve 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.

REL 3071 Greek and Hellenistic Religions
3 credit(s); Credit will not be granted if credit has been received for: CNES 3071; Meets CLE req of Historical Perspective Core;
Instructor: Sellew,Philip H
Description: A survey of ancient Greek religion from the Bronze Age down to Hellenistic times. The approach is both historical and thematic. Topics include pre-historic religion; Homer and the Olympian deities; archaeology of cult; music, dance, and procession as ritual performance; prayer and sacrifice; temple architecture and sanctuaries; oracles; beliefs about death and the afterlife; mystery cults; philosophical religion; criticism of traditional myths; Alexander and ruler cult; astrology and magic; and Near Eastern salvation religions. We pose questions of Greek tragedy and comedy, satire and pious hymnody. Extensive use of Homer, Sappho, Pindar, Aeschylus, Euripides, and Plato allows us to hear distinct voices within the overall Greek social and religious variety. We study the use of architectural space to define and express divisions between sacred and profane. The visual arts are of central importance, to help us both see these foreign or familiar gods and goddesses heroes and heroines, as well as query the ordering principles they represent. Sculpture, vase painting, gems, and coins are all brought into the picture.
Style: 85% Lecture, 10% Discussion, 5% Field Trips.
Grading: 15% mid exam, 20% final exam, 45% reports/papers, 5% special projects, 15% additional semester exams.
Exam Format: Brief IDs and short answer questions; one essay.

REL 3072 The New Testament
3 credit(s); Credit will not be granted if credit has been received for: CNES 3072; Meets CLE req of Historical Perspective Core;
Instructor: Roetzel,Calvin J
Description: Was Jesus a Christian or a Jewish prophet? Did later interpreters distort the simple religion of this Galilean charismatic teacher who spoke of the essence of a true religion? Was Paul an anti-feminist or a woman's liberationist? Was he an anti-Semite or a Jew on the margins and one of the most creative thinkers of the early Jesus movement? How did the early church select its scriptures for a New Testament? And why and how were the gospels selected? How many others were excluded? These and other questions we will pose in this historical study of the New Testament in its Graeco-Roman and Jewish context. The course will emphasize the nature and variety of religious expression in the early Church; it will treat the gospels in their historical setting, and it will study selected heated discourses between Paul and his churches in a treatment of his letters as conversations. It will also deal with some early interpreters of Paul in the New Testament, and will consider the message of Revelation for a persecuted church. The course will finally sample texts from the Gnostic Gospels of the second century.
Style: 75% Lecture, 25% Discussion.
Grading: 20% final exam, 10% special projects, 70% quizzes.
Exam Format: 30% multiple choice, 70% essay.

REL 3077 Religious Violence in the Early Roman Empire: Jews, Christians, and Pagans
3 credit(s);
Instructor: Roetzel,Calvin J
Description: In recent decades, the relationship between religion and violence has become an increasingly pressing subject of public discourse. These contemporary discussions of religious violence have their roots in the culture and religious traditions of the ancient Mediterranean and Near Eastern world, and indeed may be said to represent a direct continuation of the inter-group interactions, competition, and, at times, outright antagonism that characterized these societies. Yet, the complexity of this history is too often underestimated or overlooked in the current climate? to the detriment of both historical analysis and mutual understanding. To address that need this course will consider different methodological strategies for understanding discourses of violence, and will compare different religious traditions. The class will explore ways those traditions shape ethnic identity and practices and views of sacrifice, martyrdom, sanctuaries and the afterlife, holy war in the early Roman Period. By examining this rich tapestry of cultures within a comparative framework and exploring ways that people operating within distinct religious traditions thought about and, in some cases, participated in acts of violence, the course hopes to seek a better understanding of the genealogy of the religious violence that continues to have a profound impact on our world today.

REL 3202 Prophecy in Ancient Israel
3 credit(s); prereq instr consent ; Credit will not be granted if credit has been received for: CNES 3202; Meets CLE req of Literature Core;
Instructor: Stackert,Jeffrey R
Description: This course will examine the idea, practice, and literature of prophecy in the Hebrew Bible and contextualize these issues by comparing biblical prophecy with its ancient Near Eastern analogues. Students will read and analyze biblical and extra-biblical prophetic texts as well as other texts related to prophecy in order to understand the purposes of ancient Near Eastern prophecy as well as the practices of the prophets themselves (such as analogical ritual performance, divination, and magic). The issues of the preservation of prophetic literature as well as the cessation of prophecy in ancient Israel will also be explored. This course is especially relevant to students with an interest in religious studies, Jewish studies, ancient civilizations, or the Bible more generally. Requirements for the course include two (short) papers, quizzes related to assigned readings, a mid-term examination, and a final examination.
Style: 80% Lecture, 20% Discussion.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% quizzes.

REL 5071 Greek and Hellenistic Religions
3 credit(s); prereq instr consent ; Credit will not be granted if credit has been received for: CNES 3071;
Instructor: Sellew,Philip H
Description: A survey of ancient Greek religion from the Bronze Age down to Hellenistic times. The approach is both historical and thematic. Sources include literature, art, and archaeology. Topics include pre-historic religion; Homer and the Olympian deities; archaeology of cult; music, dance, and procession as ritual performance; prayer and sacrifice; temple architecture and sanctuaries; oracles; beliefs about death and the afterlife; mystery cults; philosophical religion; criticism of traditional myths; Alexander and ruler cult; astrology and magic. The issues of the preservation of prophetic literature as well as the cessation of prophecy in ancient Israel will also be explored. This course is especially relevant to students with an interest in religious studies, Jewish studies, ancient civilizations, or the Bible more generally. Requirements for the course include two (short) papers, quizzes related to assigned readings, a mid-term examination, and a final examination.
Style: 80% Lecture, 20% Discussion.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% quizzes.
Religious Studies
245 Nicholson Hall

RELS 5072 The New Testament
3 credit(s); Credit will not be granted if credit has been received for: CNES 3072;
Instructor: Roetzel, Calvin J
Description: Was Jesus a Christian or a Jewish prophet? Did later interpreters distort the simple religion of this Galilean charismatic teacher who spoke of the essence of a true religion? Was Paul an anti-feminist or a woman's liberationist? Was he an anti-Semite or a Jew on the margins and one of the most creative thinkers of the early Jesus movement? How did the early church select its scriptures for a New Testament? And why and how were only four gospels selected and many others excluded? These and other questions we will pose in this historical study of the New Testament in its Graeco-Roman and Jewish context. The course will emphasize the nature and variety of religious expression in the early Church; it will treat the gospels in their historical setting, and it will study selected heated discourses between Paul and his churches in a treatment of his letters as conversations. It will also deal with some early interpreters of Paul in the New Testament, and will consider the message of Revelation for a persecuted church. The course will finally sample texts from the Gnostic Gospels of the second century.
Style: 75% Lecture, 25% Discussion.
Grading: 20% final exam, 10% special projects, 70% quizzes.
Exam Format: 30% multiple choice, 70% essay.

RELS 5077 Religious Violence in the Early Roman Empire: Jews, Christians, and Pagans
3 credit(s);
Instructor: Roetzel, Calvin J
Description: In recent decades, the relationship between religion and violence has become an increasingly pressing subject of public discourse. These contemporary discussions of ?religious violence? have their roots in the culture and religious traditions of the ancient Mediterranean and Near Eastern world, and indeed may be said to represent a direct continuation of the inter-group interactions, competition, and, at times, outright antagonism that characterized these societies. Yet, the complexity of this history is too often underestimated or overlooked in the current climate?to the detriment of both historical analysis and mutual understanding. To address that need this course will consider different methodological strategies for understanding discourses of violence, and will compare different religious traditions. The class will explore ways those traditions shape ethnic identity and practices and views of sacrifice, martyrdom, spectacles of violence, apocalyptic ideologies of violence, state persecution, texts and terror, and holy war in the early Roman Period. By examining this rich tapestry of cultures within a comparative framework and exploring ways that people operating within distinct religious traditions thought about and, in some cases, participated in acts of violence, the course hopes to seek a better understanding of the genealogy of the ?religious violence? that continues to have a profound impact on our world today.

RELS 3414 Comparative Religions of South Asia
3 credit(s); Credit will not be granted if credit has been received for: SALC 3414; Meets CLE req of International Perspective Theme; meets CLE req of Other Humanities Core;
Instructor: Junghare, Indira Y
Description: This course will examine the varieties of religious experience in imperial China. It will examine religion as lived practices as well as textual traditions. We will look at Buddhism, Daoism, and Confucianism, as well as the relations among them. We will also look briefly at the western missionary enterprise in China, particularly at ways in which the western presence throws certain aspects of Chinese religion into sharp relief. We will pay particular attention to the material culture of Chinese religion, through videos, through visits to the Minneapolis Institute of Arts, and through visits to local temples. We will be attentive to the historical development of Chinese religions. The class will be a mixture of lecture and discussion. As much as possible, class activities will focus on a close reading of primary texts.
Grading: 25% mid exam, 35% final exam, 20% reports/papers, 20% other evaluation.

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: Weitz, Eric D
Description: The word "Holocaust" refers to the extermination of 6 million Jews and 500,000 Roma and Sinti (Gypsies) during the rule of National Socialism (NAZI) in Germany. Others labeled "undesirable" or "subhuman" were also exterminated in this process. In this course, particular attention will be given to the phenomenon of anti-Semitism, in both its religious and secular forms, to the relationship between mass murder or genocide and the growth of bureaucracy and technology, and to the challenges posed by the Holocaust for religious and humanistic beliefs and values. The course uses cross-disciplinary approaches, as well as documents, films and guest speakers.
Style: 90% Lecture, 10% Discussion.
Grading: 25% final exam, 70% reports/papers, 5% class participation.
Exam Format: Short answer and essay with choices. Study sheet given prior to exam.

RELS 5514 Comparative Religions of South Asia
3 credit(s); Credit will not be granted if credit has been received for: ALL 3373; Meets CLE req of Historical Perspective Core;
Instructor: Junghare, Indira Y
Description: This course will examine the varieties of religious experience in imperial China. It will examine religion as lived practices as well as textual traditions. We will look at Buddhism, Daoism, and Confucianism, as well as the relations among them. We will also look briefly at the western missionary enterprise in China, particularly at ways in which the western presence throws certain aspects of Chinese religion into sharp relief. We will pay particular attention to the material culture of Chinese religion, through videos, through visits to the Minneapolis Institute of Arts, and through visits to local temples. We will be attentive to the historical development of Chinese religions. The class will be a mixture of lecture and discussion. As much as possible, class activities will focus on a close reading of primary texts.
Grading: 25% mid exam, 35% final exam, 20% reports/papers, 20% other evaluation.
Respiratory Care
20 Classroom Office Building

RC 3102 Respiratory Care Modalities and Equipment II
A-F only, 4 credit(s); prereq 3101;
Instructor: King, Vanessa Lea
Description: Students will become competent in the implementation and operation of a range of invasive monitoring devices and life-support technology used in care of the critically ill patient. This will include airway management, hemodynamic & respiratory monitoring, and mechanical ventilation for perinatal, pediatric and adult patients. The course will conclude with completion of the American Heart Association’s course in advanced cardiac life support (ACLS). Laboratory exercises will allow simulated patient care for a range of scenarios representing cases seen in the emergency room or intensive care units. In cooperation with Mayo School of Health Sciences, Rochester.

RC 3302 Clinical Practice II
S-N only, 4 credit(s); prereq 3301, BAS respiratory care major;
Instructor: Wattier, Bryan Allan
Description: Students continue a series of rotations including 18 different clinical areas at the Mayo Medical Center. Those areas include 9 intensive care units, the operating room, emergency room, general floor care areas, pulmonary function labs, sleep disorders center, smoking cessation clinic, pulmonary rehabilitation program, home care, and an outpatient clinic. Students will expand their competencies in adult as well as perinatal & pediatric critical respiratory care. In cooperation with Mayo School of Health Sciences, Rochester.

RC 3402 Seminar in Respiratory Care II: Case reports and Fundamentals of Research
A-F only, 1 credit(s); prereq 3401, BAS RC student;
Instructor: Findlay, James Y
Description: Students will attend weekly conferences and seminar to discuss cases of clinical importance in respiratory care. The professional medical literature will be critically reviewed both from the standpoint of scientific method and clear writing style. Students will review patient cases with attention to events that required problem solving and critical thinking. Students will collaborate on a class research project leading to abstract submission. In cooperation with Mayo School of Health Sciences, Rochester.

RC 3501 Advanced Cardiopulmonary Respiratory Physiology and Pathophysiology
A-F only, 3 credit(s); prereq 3201, BAS RC student;
Instructor: Ward, Jeffrey J
Description: The first half of the course will provide students with a detailed review of the physiology cardiovascular and pulmonary systems. Once the normal function has been mastered, a review of adult, pediatric and perinatal pulmonary and cardiac disorders will be undertaken. Emphasis will be placed on: presenting assessment, laboratory evaluation, major pathophysiology, pathophysiologic manifestations and treatment options. Lab will allow observation and measurement of normal and simulated abnormal cardiopulmonary physiology. In cooperation with Mayo School of Health Sciences, Rochester.

RC 4611 Grand Rounds
A-F only, 2 credit(s); prereq Respiratory care major;
Instructor: Plevak, David Joseph
Description: This capstone course reviews respiratory clinical and professional issues from a broad spectrum and also allows reflection on caregiver roles in human caring. Presentations cover a wide range of topics that impact allied health practitioners and include global views of national health policy, economics, ethical and legal problems, and challenging clinical cases. Group discussion sessions provide a forum for multidisciplinary review of cases in order to bring larger issues down to individual patient and family experiences.

Russian
214 Nolte Center

RUSS 3404 Tolstoy in Translation
3 credit(s); Credit will not be granted if credit has been received for: RUSS 5404;
Instructor: Jahn, Gary R
Description: Student may contact the instructor or department for information.

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: 60% Lecture, 40% Discussion.
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 20% 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: Student may contact the instructor or department for information.

RUSS 5404 Tolstoy in Translation
3 credit(s); Credit will not be granted if credit has been received for: RUSS 3404;
Instructor: Jahn, Gary R
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

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: Student may contact the instructor or department for information.
SCANDINAVIAN
205 Folwell Hall

SCANDINAVIAN 25

This information is accurate as of 9/15/2008 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.

SCandinavian 25: Final Exam, 50% reports/papers, 25% class participation.

Description: INTRODUCTION TO SCANDINAVIA is an introductory course on contemporary Scandinavia focusing on literature, art, and film in these unique countries of Northern Europe. Lectures and discussions will investigate how art reflects the human condition in Denmark, Finland, Iceland, Norway, and Sweden in the face of rapid globalization. In addition, we will focus on how writers and artists interpret issues such as nationalism, migration, environmental issues, the welfare state, and the Scandinavian countries' relation to the European Union. While texts will mainly be from the contemporary period, we will map historical changes and developments by reading a saga and a folktale. This approach raises several questions of comparative nature not only in-between the Scandinavian national cultures but also what differentiates aspects of contemporary Scandinavia from the American students' own culture. Several texts will be from the social sciences. Rolf Jacobsen's poetry will introduce students to environmental issues; the Swedish movie Jalla Jalla to ethnic and cultural tensions; Svava Jakobsdottir's short story to the issue of women's discrimination and political visibility; H.C. Andersen's "The Little Mermaid" will be compared with the Disney adaptation. The course will be a mixture of lectures, discussions, presentations, group work, and videos. All texts will be in English.

Style: 50% Lecture, 50% Discussion.

Grading: 20% midterm exam, 40% final exam, 30% reports/papers, 10% class participation.

Exam Format: Question-Answer

SCANDINAVIAN 3503

This course focuses on folktales, legends, jokes and anecdotes as literature that informs us about culture. We will look at form and content in these genres and survey several theoretical approaches to the material. Class sessions will consist of lecture and small group discussions. Primary reading material will include examples from all the Nordic countries, including Finland. The target audience includes both majors and non-major undergraduates.

Style: 50% Lecture, 50% Discussion.

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

Exam Format: no exams

SCANDINAVIAN 3605

This course will examine thirty-five of the best short stories written in Denmark, Finland, Iceland, Norway, and Sweden within the last 200 years. Although it represents a large variety of literary expressions and human attitudes - ranging from early 19th century Romantic tales to late 20th century absurdist pieces - the Scandinavian short story is typically written in the realistic - psychological mode. Quite esteemed as a literary genre, its classical form has in recent years been subject to a remarkable expansion and explosion. The principal concern of the Scandinavian short story, however, remains with characters - the individual freedom, religion and society, persona and identity, desire and destiny, to say nothing of irony, humor, and tragedy. The course will explore Dinesen/Blixen's tantalizing life and work in its 20th century socio-cultural context. Close-readings will decode the interplay of history and myth and the intricate functions of narrator and style, artist and characters, nature and society within her texts, and we shall account for their existential, psychological, philosophical, and political affiliations from a variety of perspectives, such as narratology and semiotics, feminist and post-colonial theory. The question of Dinesen/Blixen's bicultural/bilingual artistic profile will be addressed in the context of reader responses to her work worldwide in the 21st century. Lectures and discussions will alternate, and so will group work alternate with individual student presentations. Brief orientations about past and current Dinesen/Blixen scholarship will be provided, and film adaptations of two stories will be incorporated as well. In addition to oral contributions in class, two term papers and one final take home essay exam are required.

Style: 40% Lecture, 10% Film/Video, 50% Discussion.

Grading: 25% final exam, 50% reports/papers, 10% in-class presentation, 15% class participation.

SCANDINAVIAN 3670

This course will explore Dinesen/Blixen's tantalizing life and work in its 20th century socio-cultural context. Close-readings will decode the interplay of history and myth and the intricate functions of narrator and style, artist and characters, nature and society within her texts, and we shall account for their existential, psychological, philosophical, and political affiliations from a variety of perspectives, such as narratology and semiotics, feminist and post-colonial theory. The question of Dinesen/Blixen's bicultural/bilingual artistic profile will be addressed in the context of reader responses to her work worldwide in the 21st century. Lectures and discussions will alternate, and so will group work alternate with individual student presentations. Brief orientations about past and current Dinesen/Blixen scholarship will be provided, and film adaptations of two stories will be incorporated as well. In addition to oral contributions in class, two term papers and one final take home essay exam are required.

Style: 40% Lecture, 10% Film/Video, 50% Discussion.

Grading: 25% final exam, 50% reports/papers, 10% in-class presentation, 15% class participation.

SCANDINAVIAN 3670 Topics in Scandinavian Studies: Isak Dinesen/Karen Blixen

This course focuses on folktales, legends, jokes and anecdotes as literature that informs us about culture. We will look at form and content in these genres and survey several theoretical approaches to the material. Class sessions will consist of lecture and small group discussions. Primary reading material will include examples from all the Nordic countries, including Finland. The target audience includes both majors and non-major undergraduates.

Style: 50% Lecture, 50% Discussion.

Grading: 20% midterm exam, 40% final exam, 30% reports/papers, 10% class participation.

Exam Format: Question-Answer

Instructor: Houe, Poul

Description: World-renowned author of the fictional autobiography Out of Africa (adapted by Sidney Pollack into an Oscar-winning movie featuring Meryl Streep and Robert Redford in lead roles) and four major collections of stories and tales, Isak Dinesen/Karen Blixen was an immensely astute and fastidious practitioner of the art of storytelling. Her deeply historical, yet unconventional imagination and mode(s) of narration make her writings a gem for avid readers and literature buffs. While Dinesen/Blixen's background is deeply European, her outlook is colored by indelible life experiences in colonial Africa, and while her visions and artistic devices are informed by layers of cultural tradition and by the canon of world literature, their boundary-crossing range is second to none. Though steeped in tradition and erudition, Dinesen is a modern writer of great consequence, boldly defying received wisdoms about the roles of men and women, gender and sexuality, societal order and individual freedom, religion and society, persona and identity, desire and destiny, to say nothing of irony, humor, and tragedy. The course will explore Dinesen/Blixen's tantalizing life and work in its 20th century socio-cultural context. Close-readings will decode the interplay of history and myth and the intricate functions of narrator and style, artist and characters, nature and society within her texts, and we shall account for their existential, psychological, philosophical, and political affiliations from a variety of perspectives, such as narratology and semiotics, feminist and post-colonial theory. The question of Dinesen/Blixen's bicultural/bilingual artistic profile will be addressed in the context of reader responses to her work worldwide in the 21st century. Lectures and discussions will alternate, and so will group work alternate with individual student presentations. Brief orientations about past and current Dinesen/Blixen scholarship will be provided, and film adaptations of two stories will be incorporated as well. In addition to oral contributions in class, two term papers and one final take home essay exam are required.

Style: 40% Lecture, 10% Film/Video, 50% Discussion.

Grading: 25% final exam, 50% reports/papers, 10% in-class presentation, 15% class participation.
will alternate, and so will group work alternate with individual student presentations. Brief orientations about past and current Dinesen/Blixen scholarship will be provided, and film adaptations of two stories will be incorporated as well. In addition to oral contributions in class, two term papers and one final take home essay exam are required; Scan 5670 students will need to utilize at least one secondary source in each of their term papers.

Style: 40% Lecture, 10% Film/Video, 50% Discussion.

Grading: 25% final exam, 50% reports/papers, 10% in-class presentation, 15% class participation.

SCAN 8500 Seminar in Medieval Scandinavian Languages and Literature
3 credit(s), max credits 9, 3 repeats allowed;
Instructor: Wakefield, Ray M

Description: In this graduate seminar the Department of German, Scandinavian and Dutch offers a unique "two for one special": two great medieval Germanic stories (Tristan by Gottfried von Strassburg and The Saga of Tristram and Isold), two medieval languages (Middle High German and Old Norse), two instructors and only one day a week! The course is designed so that students only need reading knowledge of one of these languages, and qualified undergraduates are also encouraged to participate. We will look at such diverse topics as translating, narrative structure and cultural themes, character portrayal, and audience. The course will include sessions on medieval illustrations of the story, Wagner's Tristan, and a 20th-Century movie version. For further information see Ray Wakefield (wakefield1@tc.umn.edu) or Kaaren Grimstads (grims001@tc.umn.edu). Interested undergraduates need a "magic number" to register, available from the Department or from the instructors.

Social Work
105 Peters Hall

SW 1905 Freshman Seminar: High School: Moments, Memories and Meanings
2 credit(s), max credits 6; prereq Fr;
Instructor: VeLure Roholt, Ross Ronald

Description: You have now been out of high school for about eight months and at the university for about 100 days: welcome to this new world, a place which will likely be your home for at least the next four years. Graduating high school and beginning college is a major change, one which you already have and will likely continue to think about a lot over the next years. This Seminar uses this transition from high school to the university to focus on the world of high school and your experiences there, as seen from the perspective of the university? using your memories, using your reflection and using theories of youth development and of high school? as site, as social organization, as world. In doing this we will use perspectives, theories, research and understandings from several academic disciplines and professions, and use popular media, films and videos and novels. One goal is to provide a safe space for analyzing and reflecting of your high school and your high school experience? on the moments, memories and meanings that made up ?going to high school? and ?being a high school student.? A second is to introduce you to critical analysis and theorizing of self in everyday life, especially ?being a young person?youth.? Most of what we will be talking about will likely seem to be obvious, ordinary, mundane, natural, and self-evident, even cliche, and surely, clearly right or wrong, good or bad. This is precisely the point: we will work at making the everyday visible and illuminated, thus available for analysis. We will work at learning from the everyday, from ?life,? and also from ideas, theories and concepts. Then we will move from the everyday, taken-for-granted to the abstract and from the abstract back to the concrete, specific, and unique.

Style: 10% Film/Video, 70% Discussion, 10% Field Trips, 10% Service Learning.

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

SW 2501W Introduction to Social Justice
A-F only, 4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: Arrastia, Lisa

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

SW 3301 GLBT Social Movements
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: GLBT 3301;
Instructor: Phibbs, Anne Elizabeth

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

SW 3501 Theories and Practices of Social Change Organizing
A-F only, 4 credit(s); prereq 2501W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Albrecht, Lisa D

Description: In this course, we will look at various 20th and 21st century social change movements to study how everyday people work for social change. We will also look at how various activists work for social change, and finally we will engage in community-based education (service learning) where we will volunteer in social justice organizations locally. 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, 25% Small Group Activities, 25% Student Presentation, 15% Service Learning.

Grading: 15% mid exam, 15% final exam, 20% special projects, 20% reflection paper, 15% class participation, 15% other evaluation. Other Evaluation: service learning.

Exam Format: Take-home.
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 and Family Violence**

3 credit(s); Meets CLE req of Cultural Diversity Theme;

**Instructor:** Witt, Jennifer Lyn

**Description:** This course is designed as an introduction to the study of family violence across the lifespan. It will introduce students to history, current theories, research, and policies in the areas of child maltreatment and the larger domain of family violence. The content of the course focuses on current theories, research and policies on violence against women (battering, sexual assault, stalking), child maltreatment (physical and sexual abuse, emotional abuse, neglect) and abuse of vulnerable adults (elderly, non-elderly vulnerable populations). This course is an introduction to the topic. It will give students a basic overview of the issues across types of family violence intervention and prevention and how societies have responded through public policy. The course will also integrate issues of gender, race, culture, age, physical ability, and sexual orientation throughout our examination of these topics.

**Style:** 30% Lecture, 25% Film/Video, 20% Discussion, 10% Field Trips, 15% Guest Speakers.

**Grading:** 15% mid exam, 20% final exam, 15% reflection paper, 10% in-class presentation, 20% class participation, 20% other evaluation. “OTHER EVALUATION” is 4 online assignments.

**Exam Format:** Mid term & Final exam are open book & notes.

**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 5316 Brief Treatment and the Task-Centered Approach**

2 credit(s); prereq Grad student or non-degree seeking student or instr consent;

**Instructor:** Childers, Paula Margaret

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

**SW 5316 Brief Treatment and the Task-Centered Approach**

2 credit(s); prereq Grad student or non-degree seeking student or instr consent;

**Instructor:** Rooney, Ronald H

**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 e519;

**Instructor:** Umbret, 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: SW Supervision, Consultation and Leadership**

2 credit(s), max credits 10, 3 repeats allowed;

**Instructor:** Van Slyke, Victoria D

**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 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: Group Therapy: Theory and Practice**

3 credit(s), max credits 10, 3 repeats allowed;

**Instructor:** Rohovit PhD, Julie Lynn

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

**SW 5810 Seminar: Special Topics: Work with Immigrant Populations**

2 credit(s), max credits 10, 3 repeats allowed;

**Instructor:** Hollister, C David

**Description:** Student may contact the instructor or department for information.
SW 5810 Seminar: Special Topics: Social Work Intervention for Treating Trauma  
2 credit(s), max credits 10, 3 repeats allowed;  
Instructor: Taylor PhD, Edward H  
Description: Student may contact the instructor or department for information.

SW 8103 Health and Mental Health Policy  
A-F only, 3 credit(s); prereq [8211, advanced standing] or instr consent;  
Instructor: Jones, Linda E  
Description: Student may contact the instructor or department for information.

SW 8202 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 8202 Social Work Methods: Practice With Families and Groups  
A-F only, 3 credit(s); prereq 8201 or instr consent;  
Instructor: Vande Berg, Anne Wellington  
Description: Student may contact the instructor or department for information.

SW 5813 Child Welfare and the Law  
2 credit(s); prereq 2nd yr MSW or advanced standing or instr consent;  
Instructor: Opsahl, Irene M  
Description: Student may contact the instructor or department for information.

SW 8211 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 8211 Macro Social Work Practice and Policy Advocacy  
A-F only, 3 credit(s); prereq 5101 or instr consent;  
Instructor: Reinardy, James Robert  
Description: Student may contact the instructor or department for information.

SW 8211 Macro Social Work Practice and Policy Advocacy  
A-F only, 3 credit(s); prereq 5101 or instr consent;  
Instructor: Nienow, Mary  
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 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: Lee, Hee Yun  
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: Burton Jr, Velmer S.  
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 [B211, 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: Jones, Linda E
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: Burton Jr, Velmer S.
Description: Student may contact the instructor or department for information.

SAPH 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.

SAPH 8810 Social Psychology of Health Care
2 credit(s); prereq Grad SAPh major or instr consent;
Instructor: Ranelli, PhD, Paul L
Description: Student may contact the instructor or department for information.

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
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: Meier, Ann
Description: This course will introduce basic sociological concepts including theories, methods and common subjects of sociological study including the individual and society, structures of power, social institutions, and social change. We will accomplish this through lectures, readings, assignments and videos.

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: 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
SOC 1011V Honors: Introduction to Sociology
4 credit(s); prereq: 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: Gerteis, Joseph Howard
Description: Sociology is the study of human social interactions and the broader patterns of social order that result from them. This course provides an introduction to the field by examining the foundations of social order, the social institutions that we have to deal with every day (including our educational, legal and stratification systems), and possibilities for social change. This honors section also provides an opportunity for more intensive discussion and for hands-on learning with original field research projects.
Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.
Grading: 20% mid exam, 20% final exam, 30% special projects, 20% quizzes, 10% class participation.
Exam Format: short answer, essay

SOC 3003 Social Problems
A-F only, 3 credit(s); prereq: 1001 or instr consent; 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 social institutions? In this class, we will examine some of the major social problems facing the United States today. Issues that may be examined include: the deinstitutionalization of marriage & the childcare crisis; global climate change & environmental racism, illegal immigration, terrorism & torture, chronic poverty & corporate welfare, genetic engineering & universal healthcare, violence & misogyny in the media, and race and gender discrimination. Throughout the course, we will evaluate solutions to these problems by drawing upon insights from our nation's past, as well as from other societies across the globe. In order to illustrate the issues to be discussed, we will watch segments from a number of recent documentary films such as An Inconvenient Truth, Sicko, Ghosts of Abu Ghirab, and The Boys of Baraka.
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: Latino Social Power & Social Movements in the U.S.
3 credit(s), max credits 6; prereq: 1001, [soph or above] or instr consent; soc majors must register A-F; cr will not be granted if cr has been received for same topics title; Instructor: Martinez, Richard E
Description: Student may contact the instructor or department for information.

SOC 3090 Topics in Sociology: Transnational Migration:Networks of People & Place
3 credit(s), max credits 6; prereq: 1001, [soph or above] or instr consent; soc majors must register A-F; cr will not be granted if cr has been received for same topics title; Instructor: Abdi, 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.

SOC 3101 Introduction to the American Criminal Justice System
A-F only, 3 credit(s); prereq: credit will not be granted if credit has been received for Soc 3111; meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; Instructor: Samaha, Joel B
Description: Overview and analysis of the United States criminal justice system. The course stresses three themes: 1. the balance between the government's power to control crime and the rights of individuals; 2. the appropriate decision making criteria (seriousness of offense, criminal history of offenders, and strength of evidence) and the illegal criteria (race, ethnicity) that can infect decision-making in the major crime control agencies (police, courts, and corrections); 3. the evaluation of criminal justice policies and practices (Do they work? Are they legal? Are they fair? Are they smart?). The course describes, analyzes, and provides information and arguments to stimulate you to think critically about crime control in a constitutional democracy. Topics include crime, trends in crime, criminals and their families; victims and their families; crime control in a constitutional democracy; criminal law; police, police roles and culture, police strategies, and police and the Constitution; charging suspects; prosecuting, defending, and sentencing defendants; probation and incarceration; and prisoner reentry into society ("Eventually, they all come home."). No prior knowledge of the criminal justice system is required.
Style: 60% Lecture, 20% Discussion. documentary videos of police, courts, corrections, and terrorism
Grading: 10% class participation, 90% other evaluation. 3 NONCUMULATIVE multiple choice exams + a NONCUMULATIVE final exam
Exam Format: multiple choice

SOC 3101 Introduction to the American Criminal Justice System
A-F only, 3 credit(s); prereq: credit will not be granted if credit has been received for Soc 3111; meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; Instructor: Page, Joshua A
Description: The goal of this course is to help students develop an introductory understanding of the criminal punishment system in the United States. This course examines the components, dynamics, and philosophical underpinnings of law enforcement, courts, prisons, jails, parole, and capital punishment. This course also illuminates the relationships between criminal punishment and social processes, including: ethnic, racial and class inequality; political and economic change; and popular representations of crime and criminals. Please note that this class has a heavy reading load; however, the readings (primarily fiction and memoir) are engaging and straightforward.
Style: 45% Lecture, 5% Film/Video, 40% Discussion, 5% Small Group Activities, 5% Guest Speakers.
Grading: 30% mid exam, 30% final exam, 30% quizzes, 10% class participation.
Exam Format: Essay and short answer (3 quizzes, 1 mid-term, 1 final)
SOC 3102 Introduction to Criminal Behavior and Social Control

3 credit(s); prereq Soc majors must register A-F; credit will not be granted if credit has been received for Soc 3111 Soc majors must register A-F;

Instructor: Savolainen.,Jukka

Description: This course is intended to be a broad introductory overview to the content encountered in more specific 4000-level crime, law, and deviance classes in the sociology department. To gain a basic understanding of the subject-matter, we will begin by discussing some definitions, ways to measure crime and criminal behavior, and a general overview of how crime is patterned across time, place, and groups. Then, we will spend two-thirds of the semester learning about theories that explain criminal outcomes: offending and victimization. The main focus is on sociological theories but we will also cover psychological, biological, and economic perspectives. We will continue to measure crime and criminal behavior, and a general overview of how crime is patterned across time, place, and groups.

Style: 60% Lecture, 5% Film/Video, 20% Discussion, 5% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.

Grading: 25% mid exam, 40% final exam, 20% quizzes, 5% in-class presentation, 10% class participation.

Exam Format: Multiple choice, true/false

SOC 3211W American Race Relations

A-F only, 3 credit(s); 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 class is designed to provide students with an understanding of the contours of race in the post-civil rights era United States. Using films, readings, discussion, and lecture, we examine the myriad ways that racial logics, ideas and practices structure American society and influence the life experiences and outcomes of all its members. In the first section of the class, we explore major theoretical concepts in the race relations literature and provide an overview of the historical roots of race and racism in the U.S. The majority of the class will be devoted to an examination of the dynamics of race in different cultural and institutional contexts. We will draw from the following topic areas-- A) Identity B) Immigration C) Education. We will specifically focus upon the experiences of African Americans, whites, Latinos, Asian Americans, Multiracial Americans, and Native Americans in today's society. In the last section of the class, we will discuss the future of race relations in the U.S., and evaluate strategies to overcome racial inequality.

Style: 40% Lecture, 30% Discussion. viewing documentary films

Grading: 10% mid exam, 55% reports/papers, 15% in-class presentation, 20% class participation.

Exam Format: there will be one quiz later in the term worth 10% of the grade (listed above as "mid exam")

SOC 3212W Sociology of Gender

A-F only, 3 credit(s); Meets CLE req of Social Science Core; meets CLE req of Diversity Theme; meets CLE req of Social Science Core;

Instructor: Ortyl,Timothy Adam

Description: How many times every day are you reminded of your gender? This course will help us to see gender as an understanding how and why gender operates in society. The course will primarily focus on the contemporary US, with some focus on international issues. This course will examine the role of gender in the social organization of society, focusing on both men and women, but taking a critical gaze at the role of gender inequality in society. We will be examining the social construction of gender and looking at how individuals become members of society through childhood socialization, education, and other formative experiences. We will use the sociological imagination to explore the up close and personal experience of being gendered individuals as well as the social institutions that create, preserve, and alter gender norms, including schools, families, and the media. This course will address topics that examine how gender systems interact with society, including, but not limited to: gendered communication, the media, the social construction of the body and body image, sexualities, race/ethnicity, transgender bodies and identities, violence, and social change.

Style: 30% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.

Grading: 17% mid exam, 17% final exam, 8% quizzes, 20% reflection paper, 13% in-class presentation, 17% class participation, 8% other evaluation.

SOC 3251W Sociological Perspectives on Race, Class, and Gender

A-F only, 3 credit(s); 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: Cherumak, Kelly Rose

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., discussing how they shape each of our lives, life-chances, and daily interactions. The course will be divided into lecture, group discussion and group activities. This is a writing-intensive course, and students will be expected to do a good deal of formal and informal writing. Participation in discussion and engagement with the ideas is integral to this course and will count substantially toward final grades. In this class, we will connect the concepts drawn from the materials, as well as our own life experiences and thoughts. Hence, the need for heavy class participation. In the first weeks of the class, we examine the social construction of Race, Class, Gender and Sexuality in American society. After we’ve examined these core concepts, how they are socially constructed and how they intersect, we will begin to examine how they play out in everyday life in arenas such as the workplace, the home, the legal and criminal justice systems, educational institutions, etc.

Style: 25% Lecture, 50% Discussion, 25% Small Group Activities.

Grading: No exams. Students are graded on their own formal work, informal class writing, and class participation.

SOC 3415 Consume This! The Sociology of Politics and Consumer Consumer

A-F only, 3 credit(s); prereq 1001 or instr consent ; soc majors/minors must register A-F;

Instructor: Gowen,Teresa

Description: The materials in this class will give students a multifaceted picture of contemporary consumer society. Topics may include the following: the historical roots of mass consumption, the causes and consequences of automobile-based transport, the commercialization of childhood, lifestyle marketing and branding, the industrialization of food production and the organic food movement, consumer politics and anti-consumption activism, the rise of consumer credit, and the commodification of deviance and dissent.

Style: 30% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities. My teaching style emphasizes active learning - I aim for high student participation, with lots of wide-ranging (and inter-disciplinary) discussion and energetic group work. The class may not suit those who prefer highly structured classes.

Grading: Grade: 40% exams & quizzes. 40% Official Blog Entries and Zine Preparation. 20% class citizenship, blog citizenship. Each absence after three will decrease your grade by .2. E.g. 3.3 > 3.1 (B+ > B)

SOC 3501 Sociology of Families

A-F only, 3 credit(s); prereq 1001 or instr consent ; soc majors/minors must register A-F; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

Instructor: Allen,Gina Marie

Description: This course is designed to give students an overall understanding of the family as a social institution. Over the course of the semester, we will be examining family structure historically and in contemporary US society; we will consider the family as a social construction. We will also focus on family...
SOC 3701 Social Theory
A-F only, 4 credit(s); prereq 1001 or instr consent; 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? What 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

SOC 3701 Social Theory
A-F only, 4 credit(s); prereq 1001 or instr consent; Instructor: Edgell,Penny A
Description: This course will help students acquire the skills of research methods. To fulfill the writing requirements of the course, a series of assignments will be completed by each student. The course is not designed exclusively as a "how to" course, it is oriented toward giving you practical experience working with different kinds of research methods. To fulfill the writing requirements of the course, a series of assignments will be completed by each student.
Style: 60% Lecture, 10% Discussion, 20% Laboratory, 10% Small Group Activities.
Grading: 60% mid exam, 20% final exam, 10% reports/papers, 10% quizzes, 10% class participation, 10% laboratory evaluation.

SOC 3701 Social Theory
A-F only, 4 credit(s); prereq 1001 or instr consent; Instructor: Williams,Dorothy Smith
Description: This course will provide an overview of the major theoretical traditions in the discipline of sociology. Sociological theory is like an evolving conversation about core questions regarding the nature of social organization and the integration of the individual into society. These questions include: Is society comprised of relationships of exchange between rational actors? Is it held together by rituals that create identity and community? Is the social order shaped mostly by the economic system and how it organizes resources (e.g. capitalism), or are technologies of communication and control what matter as we transition from industrial society to mass societies? How does increasing globalization foster new theories of how societies work? Are individuals rational calculators of their actions, or are social forces and perspectives systematically laced throughout the conversation? Theory has expanded to grapple in new ways with the bewildering messiness of our world. In this class you will work closely with texts by a handful of the great social theorists, and practice reading and evaluating the assumptions underlying "common sense" statements about how societies work. Reading extracts from Marx, Durkheim, Weber, Gramsci, Fanon, Patricia Williams, Dorothy Smith, McKinnon & Foucault will concentrate on readings around notions of power: economic, racist, colonial, patriarchal, bureaucratic, and discursive. I believe that theoretical competence comes when you learn to enjoy intellectual creativity and risk-taking, and so we will spend considerable class time using role-playing and debates to loosen up those Minnesota inhibitions! Reading will not be extensive in terms of number of pages, but I will expect you to engage seriously with texts that can sometimes be both dense and abstract. Most of the required reading reports and other assignments will be self published by students on the class blog, which will enrich the depth and scope of class debate.
Style: 40% Lecture, 60% Discussion.
Grading: 40% exams, quizzes. 40% Official Blog Entries. 20% class citizenship and blog citizenship. Each absence after three will decrease your grade by 2. E.g. 3.3 > 3.1 (B+ > B)
Exam Format: Quotation identification and analysis. Comparison of theories and/or application to historical & contemporary phenomena.

SOC 3801W Sociological Research Methods
4 credit(s); prereq [1001 or 1011V] or instr consent, soc majors must register A-F; Meets CLE req of Writing Intensive; Instructor: Savolainen,Jukka
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 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 hypotheses; to understand principles of conceptualization, measurement, sampling, and causal inference; and to implement a variety of social science research designs. Although the course is not designed exclusively as a "how to" course, it is oriented toward giving you practical experience working with different kinds of research methods. To fulfill the writing requirements of the course, a series of assignments will be completed by each student.
Style: 60% Lecture, 10% Discussion, 20% Laboratory, 10% Small Group Activities.
Grading: 40% mid exam, 20% final exam, 10% reports/papers, 10% quizzes, 10% class participation, 10% laboratory evaluation.
SOC 3811 Basic Social Statistics
4 credit(s); prereq GC 0731 or intermediate algebra or instr consent; Meets CLE req of Mathematical Thinking Core;
Instructor: Eliason, Scott R
Description: The objective of this course is to introduce undergraduate sociology majors to simple statistical measures and procedures that are used in sociological research. This course emphasizes (1) measures of central tendency, dispersion, skewness, and kurtosis, (2) measures of association and correlation, (3) regression and analysis of variance techniques, (4) basic notions of probability, random variables, and distributions, and (5) statistical inference.
Style: 75% Lecture, 25% Laboratory.
Grading: 33% mid exam, 33% final exam, 33% problem solving, homework and lab assignments
Exam Format: multiple choice, true/false, short answer, and essay

SOC 4090 Topics in Sociology: Terrorist Networks and Counterterror Organizations
3 credit(s), max credits 6; prereq [1001, [soph or above]] or instr consent; soc majors must register A-F; cr will not be granted if cr has been received for same topics title;
Instructor: Knobe, David H
Description: Terror involves using violent actions to achieve political, religious, or social goals. This course undertakes a historical-comparative examination of theories and evidence about the social origins, development, and consequences of terrorist networks. It analyzes efforts to prevent, investigate, prosecute, and punish terrorists by counterterror organizations, including law enforcement, security, and military forces. Classes consist of lectures, guest speakers from the university and community, television and cinema clips, role-playing activities, and discussions/debates about the issues raised by the reading assignments. It involves several writing assignments. Among the topics are: (1) Distinguishing terror organizations and methods from similar instances of extra-state violence, such as guerilla insurgency and organized crime; relevance of political and social movement theories of collective action for explaining terrorism. (2) Identifying ethnic, cultural, religious, national, and international sociopolitical structural conditions that trigger, sustain, resist, and terminate terror; factors associated with successful and failed terror campaigns. (3) Investigating the individuals, groups, organizations, and states sponsoring and participating in terror actions - their beliefs, motives, networks, recruitment, tactics, tactics and strategies. (4) Uncovering the social organization of domestic and international networks for terrorist funding, training, and operations; their ties to illegal cartels involved in drug and human trafficking. (5) Examining governmental responses and policies to fight terrorism, with a specific focus on the 9/11 events and subsequent links to the wars in Afghanistan and Iraq. (6) Proposing policies for improving law enforcement, military, security, public health, and mass media systems to counter terror coalitions more effectively.
Style: 40% Lecture, 15% Film/Video, 20% Discussion, 15% Small Group Activities, 10% Guest Speakers.
Grading: 100% reports/papers.

SOC 4090 Topics in Sociology: Variations in European Social Policy
3 credit(s), max credits 6; prereq [1001, [soph or above]] or instr consent; soc majors must register A-F; cr will not be granted if cr has been received for same topics title;
Instructor: Fleck, Christian
Description: Student may contact the instructor or department for information.

SOC 4101W Sociology of Law
A-F only, 3 credit(s); prereq 1001 or 3101 or 3102 or 3111 or instr consent; 3701 recommended; Meets CLE req of Writing Intensive;
Instructor: Stryker, Robin S
Description: Whether we are aware of it or not, law touches almost every aspect of our lives. This course examines how law matters to people's lives, especially in the United States. It uses materials from recent court cases about such important and controversial issues as the death penalty, same-sex marriage and affirmative action, and materials showing how people encounter and understand law in their everyday lives. Major questions to be addressed include: What is law? How do courts make law? How does adjudicative law change? How does the formal legal system in the US work? How is social science expertise used in the legal system? Why do people obey the law? Can people use law to change the law? How does social change promote legal change? Can legal change promote social change? Specific topics to be explored include law and race, class and gender inequalities; law, norms and culture; law and social movements; and law and social change. Emphasis is given especially to civil law and the civil justice system but some readings, lecture material and assignment options do focus on the criminal justice system. Some comparative materials are incorporated in lectures, to place American law in a cross-national and global context. Two books will be used, Chester, Sanders and Kalmus, Social Science in Court: Mobilizing Experts in the School Desegregation Cases; and Ewick and Silbey, The Common Place of Law: Stories from Everyday Life.
Style: 70% Lecture, 30% Discussion. There may be some group or otherwise participatory exercises or debates
Grading: About 1/3 of your grade will be based on 2 in-class exams, the other 2/3 will be based on your writing assignments.
Exam Format: combination of multiple choice & short answer/essay

SOC 4102 Criminology
A-F only, 3 credit(s); prereq 3101 or 3102 or 3111 or instr consent; Credit will not be granted if credit has been received for: SOC 4103;
Instructor: Savelsberg, Joachim J
Description: This course examines new trends in criminological research, i.e. innovative explanations of crime and punishment. A cross-section of recent criminology books and articles will be discussed that have attracted much attention among scholars and/or the broader public. Examples for crime theories discussed are Messner and Rosenfeld's "Crime and the American Dream," Sampson and Wilson's focus on inner city poverty and dislocation as a central root of crime, Hagan/McCarthy's "Mean Streets" with its focus on homeless youth and crime, Newman's "Rampage," a study on school shootings, and Anderson's "Code of the Street." The punishment side covers sections from books by Beckett on the role of media and politics in creating moral panics, Garland with his focus on punitive responses in times of uncertainty, and texts on international differences in punishment. A new section examines a much neglected theme: serious human rights and humanitarian law violations such as war crimes and genocide and control responses to them. Students read chapters from books and articles while lecture provides background information. Lecture is accompanied by discussion and small group work.
Style: 50% Lecture, 15% Film/Video, 20% Discussion, 15% Small Group Activities. small group work
Grading: 80% mid exam, 30% final exam, 10% class participation.
Exam Format: multiple choice, short answer
United Kingdom, and Pakistan. Additionally, we analyze several case studies to understand the contours, functions, and effects of police culture, as well as divisions within that culture (e.g., ethnoracial, gender, age/seniority divisions). Further, we compare law enforcement officers in various contexts (the streets, prisons, and military), thereby sharpening our analytical definition of policing. Lastly, we interrogate the relationships between police and social movements, highlighting ways in which police bolster state authority, prevailing social relations, and dominating values, sentiments, and behaviors.

**Style:** 40% Lecture, 10% Film/Video, 40% Discussion, 10% Guest Speakers. The percentages listed here are approximations and may change during the semester.

**Grading:** 60% mid exam, 30% final exam, 10% in-class presentation.

**Exam Format:** There will be two take-home mid-term exams and one in-class final exam.

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**SOC 4141 Juvenile Delinquency**

A-F only, 3 credit(s); prereq 3101 or 3102 or 3111 or instr consent; Instructor: Ugen, Christopher

**Description:** This course presents an overview of sociological theory and research on juvenile delinquency. We start with a critical examination of the social facts surrounding the measurement, extent, and distribution of delinquency. Next we study some of the principal sociological explanations of delinquent behavior. These theories provide conceptual tools for analyzing monographs detailing delinquency among diverse groups of young people. We conclude by analyzing some of the key programs implemented in attempts to reduce delinquency. Course objectives: 1) To understand the way that delinquency is currently measured and the extent and distribution of delinquent behavior according to these measures; 2) To gain a working knowledge of the major sociological theories used to explain delinquency; 3) To apply the conceptual tools of these theories to selected case studies; and, 4) To critically evaluate concrete policy responses to delinquency.

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

**Grading:** 25% mid exam, 30% final exam, 25% reports/papers, 10% special projects, 10% class participation.

**Exam Format:** Mixed

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**SOC 4149 Killing**

3 credit(s); prereq Sr or grad; grad students only may enroll S-N; 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.

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**SOC 4162 Criminal Procedure in American Society**

3 credit(s); prereq 3101 or 3102 or 3111 or instr consent; 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

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**SOC 4175 Law, Politics, and Inequality**

3 credit(s); prereq 3101 or 3102 or 3111 or instr consent; soc majors/minors must register A-F;

**Instructor:** Stryker, Robin S

**Description:** Law is an important object of study, not just for understanding crime and criminal justice systems, but also for understanding how economic systems, political systems and systems of stratification/inequality come to be, are reproduced and reinforced, or conversely, undercut and transformed. The overarching goal for this course is to understand and explain when, how, why, and to what extent law reproduces or conversely undercut class, race, gender and other inequalities. The key questions to be asked and answered concern the opportunities and limits of law for reducing economic, political and social inequalities at multiple institutional levels from local, to national to transnational and global. Emphasis will be given to issues of inequality in advanced capitalist democracies, including but not restricted to the United States. Readings will include a central text, John R. Sutton's Law/Society: Origins, Interactions and Change, and also an assortment of articles and chapters available either through electronic reserve or for purchase as a readings packet. Your grade will be determined by your performance on three exams, with 1/3 of your grade allocated to each exam. If you are on the borderline between two grades (say A-/B+) and have excellent class participation, you will receive the higher grade.

**Style:** 75% Lecture, 25% Discussion. There may be some group participation exercises and/or film clips.

**Exam Format:** Multiple choice, may also be some short answer/essay

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**SOC 4521 Love, Sex, and Marriage**

3 credit(s); prereq Soc majors must register A-F 1001 or instr consent; soc majors/minors must register A-F; Instructor: Hull, Kathleen E

**Description:** This course will provide an overview of sociological approaches to intimate human relationships. Specific topics we will cover include love and romance, dating and mate selection, sexuality, cohabitation, marriage, and divorce. The focus is on contemporary American society, but current U.S. practices are placed in historical and cross-cultural context. The goals for the course include: familiarizing you with social scientific approaches to the study of intimate human relationships and increasing your interest in the topic; challenging some of your taken-for-granted notions about what is "natural" or "normal" with regard to love, sexuality, and marriage; stimulating you to think about the impact of broad social forces (particularly the rise of modernity) on beliefs and practices related to intimate relationships; highlighting the salience of various social identities - including race/ethnicity, class, age, sexual orientation, and especially gender - to beliefs and practices around intimate relationships; introducing you to some of the significant current policy debates regarding intimate relationships, and fostering your ability to critically assess the arguments on all sides of these debates.

**Style:** 60% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities.

**Grading:** 40% mid exam, 30% final exam, 30% quizzes.

**Exam Format:** multiple choice, short answer, essay

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**SOC 4681 Sociology of German Society**

A-F only, 3 credit(s); prereq 1001 or instr consent; Meets CLE req of International Perspect Theme; Instructor: Savelisberg, Joachim J

**Description:** This is a sociology course directed at students with an interest in Germany and Europe who major in Sociology or in other departments and programs such as Global Studies; History; Political Science; Anthropology, Geography; and German, Scandinavian and Dutch. The course seeks to provide students with an understanding of German society, its history and its contemporary shape. One question to be addressed is how the horrendous aggression of WWII and the Holocaust could be committed by and in Germany and how contemporary Germany deals with the trauma of these events. Another section examines contemporary social institutions such as family, education, religion, welfare state, social movements, law and politics from a comparative perspective. This section yields insights not just into German society, but also into others, including American society. As in study abroad programs, we often learn more about particularities of our own country by

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This information is accurate as of 9/15/2008 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 4966W Major-Project Seminar
A-F only, 4 credit(s); prereq 3701, 3801, 3811, 12 cr upper div sociology, dept consent; Meets CLE req of Writing Intensive;
Instructor: Aminzade, Ron R
Description: This section is a 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 explore the role of sociological knowledge, research, and thought in contemporary American public life. It will 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 community service learning (field research papers or action projects with participating community organizations) or writing a library research paper that documents the current state of sociological knowledge in a particular area of the discipline and then explores how audiences outside the academy (e.g. journalists, judges, lawmakers, probation officers, etc.) have used, ignored, or misused this knowledge. 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 4968W Major-Project Seminar
A-F only, 4 credit(s); prereq 3701, 3801, 3811, 12 cr upper div sociology, dept consent; Meets CLE req of Writing Intensive;
Instructor: Boyle, Elizabeth Heger
Description: Satisfies sociology major senior project requirement. Guidance in defining a problem, reviewing prior theory and research, gathering data, and conducting analyses. Classes will consist primarily of discussion and group consultations interspersed with lectures. Periodic assignments will allow students to build their projects step-by-step. A textbook on writing in sociology will be required. The course is targeted to undergraduate sociology majors.
Style: 20% Lecture, 40% Discussion. peer review and consultation
Grading: 20% class participation, 60% other evaluation. mini-papers; 20% final paper

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: Mortimer, Jeylan T
Description: This is the second part of a 2-semester sequence whose purpose is to help Sociology honors students develop their honors theses. The Spring proseminar will guide students in the conduct of their research projects, involving data gathering (surveys, ethnographic observation, content analysis, or archival documents), analyzing their data, writing the findings, and completing all sections of the thesis. Each student will present the work to the class at the end of the semester. Class discussions, sometimes in small groups, will focus on student research projects: the opportunities, obstacles, and challenges encountered as the work progresses. Students will also read, evaluate, and edit one another’s work in collaborative teams.
Style: 30% Lecture, 20% Discussion, 30% Small Group Activities, 20% Student Presentation.
Grading: 45% reports/papers, 35% written homework, 10% in-class presentation, 10% class participation.

SOC 5090 Topics in Sociology
3 credit(s), max credits 9, 3 repeats allowed; prereq 1001 or instr consent;
Instructor: Macmillan, Ian Ross
Description: Student may contact the instructor or department for information.

SOC 8001 Sociology as a Profession
S-N only, 1 credit(s), max credits 2; prereq Grad soc major; Instructor: Hartmann, Douglas
Description: Student may contact the instructor or department for information.

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

SOC 8290 Topics in Social Stratification: Social Stratification in China
3 credit(s), max credits 12, 4 repeats allowed;
Instructor: Bian, Yanjie
Description: This is a seminar on frontier research findings on China's social stratification in the post-1980 reform era. Students will be led to read relevant sociological publications, and in-class discussion will be focused on power and class stratification, socioeconomic inequalities, and patterns of positional mobility. If you anticipate to do research about China or post-Communist societies, this is the seminar to take.
Style: 30% Lecture, 50% Discussion, 20% Student Presentation.
Grading: 60% reports/papers, 20% in-class presentation, 20% class participation.

SOC 8390 Topics in Political Sociology: Social Movements & Contention Politics
3 credit(s), max credits 12, 4 repeats allowed; prereq Soc grad student or instr consent; Instructor: Aminzade, Ron R
Description: Student may contact the instructor or department for information.
SOC 8551 Social Structure and the Life Course
3 credit(s); prereq Soc grad major or instr consent;
Instructor: Mortimer, Jeylan T
Description: This seminar examines the life course paradigm and some major theoretical and empirical work that flows from it. By presenting key concepts, research strategies, and empirical exemplars in life course analysis, students will be provided the intellectual tools to assess the temporal dimensions of human lives in their historical, societal, institutional, and developmental contexts. Topics to be considered: The Life Course Perspective: Antecedents and Questions The Social Structure and Personality Perspective Bringing in Temporality (historical, social, biological time): Life Course and Life Span Demography and the Life Course Classical Perspectives and Extensions Central Concepts, Premises, and Strategies of Analysis Stages, Transitions, Trajectories, and Pathways Turning Points Life Course Variability Historical Cross-national Intrascientific (SES, Race/Ethnicity) Institutional Structuring of the Life Course The Destruccration Thesis Family Education and Work The Polity The Self and the Life Course Forces Generating Personal Continuity and Change Self as Agent Self as Reflection of Social Experience Most required readings are drawn from the Handbook of the Life Course (Mortimer and Shanahan, editors, 2003). Students will also read Biography and the Sociological Imagination: Contexts and Contingencies, by Michael J. Shanahan and Ross Macmillan. Term papers will review and evaluate a life course concept or will constitute an empirical study; students will present their papers to the seminar at the end of the semester. There are no exams.
Style: 40% Lecture, 40% Discussion, 20% Student Presentation.
Grading: 40% reports/papers, 20% in-class presentation, 40% class participation.

SOC 8801 Sociological Research Methods
A-F only, 4 credit(s); prereq Grad soc major or instr consent;
Instructor: Hartmann, Douglas
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: Knoke, David H
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: Boyle, Elizabeth Heger
Description: Student may contact the instructor or department for information.

SOC 8890 Advanced Topics in Research Methods
3 credit(s), max credits 32, 8 repeats allowed; prereq Grad soc major, 5801, 8811 or instr consent;
Instructor: Schurman, Rachel
Description: This course offers graduate students a chance to initiate or develop a qualitative research project. The class sessions will progressively introduce various field methods: ethnographic fieldwork and fieldnote writing; in-depth interviews; focus groups; textual analysis; and visual sociology. We will discuss exemplary works to illuminate the nuances and possible applications of each method. Each student will undertake a research project incorporating at least three of the methods, although they may focus primarily on one. The class will discuss the theoretical and practical issues around the coding of qualitative data. To get a feel for the coding process, students will code one section of their data using pre-computer coding techniques, and another section using Atlas TI.

SOC 8890 Advanced Topics in Research Methods
3 credit(s), max credits 32, 8 repeats allowed; prereq Grad soc major, 5801, 8811 or instr consent;
Instructor: Schurman, Rachel
Description: This course offers graduate students a chance to initiate or develop a qualitative research project. The class sessions will progressively introduce various field methods: ethnographic fieldwork and fieldnote writing; in-depth interviews; focus groups; textual analysis; and visual sociology. We will discuss exemplary works to illuminate the nuances and possible applications of each method. Each student will undertake a research project incorporating at least three of the methods, although they may focus primarily on one. The class will discuss the theoretical and practical issues around the coding of qualitative data. To get a feel for the coding process, students will code one section of their data using pre-computer coding techniques, and another section using Atlas TI.

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: Schutta, Nathaniel T
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, Jaideep
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: Heimdal, 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.
SGN 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Hedger, Richard John
Description: Student may contact the instructor or department for information.

SGN 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Kruse, John Michael
Description: Student may contact the instructor or department for information.

SGN 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Vayghan, Jamshid A.
Description: Student may contact the instructor or department for information.

SGN 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Calvo, Michael Joseph
Description: Student may contact the instructor or department for information.

SGN 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Schutta, Nathaniel T
Description: Student may contact the instructor or department for information.

SGN 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Freese, Jesse David
Description: Student may contact the instructor or department for information.

SGN 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Heimdahl, Mats Per
Description: Student may contact the instructor or department for information.

SGN 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Bitzenhofer, Neil A
Description: Student may contact the instructor or department for information.

SGN 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Skovbroten, John Emil
Description: Student may contact the instructor or department for information.

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

Soil, Water, and Climate
439 Borlaug Hall

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 every day 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: Bierman, Peter Mason
Description: Student may contact the instructor or department for information.

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: Bloom, Paul Ronald
Description: Structural chemistry, and origin and identification of crystalline soil clay minerals. Structure of soil organic matter. Chemical processes in soil; solubility, adsorption/desorption, ion exchange, oxidation/reduction, acidity, and alkalinity. Solution of problems related to environmental degradation, plant nutrition, and soil genesis.
Style: 80% Lecture, 20% Discussion.

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

This information is accurate as of 9/15/2008 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.
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 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.

**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: Allan, Deborah L

**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); prereq 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; prereq [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); prereq [S232, 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; prereq Grad major in soil sci or related field, instr consent; Instructor: Allan, Deborah L

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

**SALC 3414 Comparative Religions of South Asia**

3 credit(s); Credit will not be granted if credit has been received for: SALC 5414; Meets CLE req of International Perspect Theme; Instructor: Junghare, Indira Y

**Description:** This course compares and contrasts basic philosophical concepts, literatures, ideologies, and ritualistic practices of Hinduism, Buddhism, and Jainism, with those of Islam and Sikhism. The course begins with a discussion of the rise and development of the religions as socio-cultural traditions and belief systems. The subsequent discussions include the concepts of the soul, the ultimate reality, the self, and their relationships with each other and the universe in general. The approach to the study of the religions is synthetic, i.e. a combination of historical, philosophical, and anthropological methods. This course is open to all interested students.

**Style:** 40% Lecture, 30% Discussion. video

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

**Exam Format:** multiple choice, essay, short answer

**Spanish**

**34 Folwell Hall**

**SPAN 344 Advanced Medical Spanish**

S-N only, 0 credit(s); prereq Span 0144, 2 yrs. Spanish; Instructor: Lopez, Maria Emilee

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

**SPAN 1044 Intermediate Medical Spanish**

5 credit(s); prereq 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. round table discussion

**Exam Format:** Exams evaluate listening, reading, vocabulary & grammar, writing & culture. A minimum of multiple choice and true/false items; encourage use of natural language by using short answers, short /long reports

**SPAN 1054 Spanish for Heritage Students**

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<thead>
<tr>
<th>Course</th>
<th>Credit(s)</th>
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<th>Instructor</th>
<th>Description</th>
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<tr>
<td>5</td>
<td></td>
<td></td>
<td>Barela,Eva</td>
<td>Students may contact the instructor or department for information.</td>
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</tbody>
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**SPAN 3022 Advanced Business Spanish**

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<tr>
<th>Course</th>
<th>Credit(s)</th>
<th>Prereq</th>
<th>Instructor</th>
<th>Description</th>
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<tbody>
<tr>
<td>4</td>
<td></td>
<td>[1014 or 1004 or 1044 or equiv]</td>
<td>Flavio Antonio</td>
<td>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 immigrant community and the unique opportunity to get perspectives on health related issues from Chicano/Latino immigrants in the Twin Cities. These exercises are intended to expose different captured views on health and health care, promote cultural awareness and cultural sensitivity. <strong>Grading:</strong> 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 <strong>Exam Format:</strong> Essays and short answers written in Spanish, together with grammar sections. Exams evaluate listening, reading, vocabulary &amp; grammar, writing &amp; culture. A minimum of multiple choice and true/false items.</td>
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**SPAN 3044 Advanced Medical Spanish**

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<tr>
<td>4</td>
<td></td>
<td>[1004 or 1014 or 1044 or equiv]</td>
<td>Maria Emilce Lopez</td>
<td>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 immigrant community and the unique opportunity to get perspectives on health related issues from Chicano/Latino immigrants in the Twin Cities. These exercises are intended to expose different captured views on health and health care, promote cultural awareness and cultural sensitivity. <strong>Grading:</strong> 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 <strong>Exam Format:</strong> Essays and short answers written in Spanish, together with grammar sections. Exams evaluate listening, reading, vocabulary &amp; grammar, writing &amp; culture. A minimum of multiple choice and true/false items.</td>
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**SPAN 3401 Service Learning in the Chicano/Latino Community**

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<tr>
<th>Course</th>
<th>Credit(s)</th>
<th>Prereq</th>
<th>Instructor</th>
<th>Description</th>
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<tbody>
<tr>
<td>3</td>
<td></td>
<td>[3015 with grade of at least B-]</td>
<td>Ganley,Kathleen Marie</td>
<td>The focus of this 2 1/2 hour weekly seminar is on Latino immigration. Students analyze topics such as: the affects of the global economy on the emigration of Latin Americans, U.S./Mexican border issues, immigration law, racism, discrimination, language issues and contributions of Chicanos/Latinos in the U.S. Students will accomplish this through reading academic materials, papers, simulations, videos, discussions with the classmates and with numerous guest speakers, both in class and during visits to organizations in the community. Students will continue to analyze the reality of these topics in the lives of Latino immigrants in the Twin Cities as they complete the required 42 hours of community service. Students are placed in a wide variety of sites such as pre-school to adult education, human or workers rights' centers, social service agencies or bilingual newspapers. <strong>Style:</strong> 85% Discussion. Videos, role-plays, simulations. <strong>Grading:</strong> 10% final exam, 30% reports/papers, 20% special projects, 20% class participation, 20% other evaluation. community service <strong>Exam Format:</strong> no exams - 20% journals &amp; homework, 10% final paper or project</td>
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**SPAN 3404 Medical Spanish and Community Health Service**

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<th>Prereq</th>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>3</td>
<td></td>
<td>[3015 with grade of at least B- or [1044, high pass on at least three sections of LPE)]</td>
<td>Lopez,Maria Emilce</td>
<td>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 immigrant community and the unique opportunity to get perspectives on health related issues from Chicano/Latino immigrants in the Twin Cities. These exercises are intended to expose different captured views on health and health care, promote cultural awareness and cultural sensitivity. <strong>Grading:</strong> 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 <strong>Exam Format:</strong> Essays and short answers written in Spanish, together with grammar sections. Exams evaluate listening, reading, vocabulary &amp; grammar, writing &amp; culture. A minimum of multiple choice and true/false items.</td>
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**SPAN 3502 Modern Spain**

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<th>Prereq</th>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>3</td>
<td></td>
<td>3105S</td>
<td>Villar,Susan McMillen</td>
<td>This course presents many of the idiosyncrasies of Spanish culture and civilization of the second half of the twentieth century until the present. The students will explore themes that tend to repeat themselves in Spanish society: religion, history, political discourse, languages, regionalisms and nationalities, the family, changing gender roles, immigration, etc. The instructor will present each topic that will be further examined in Spanish feature films, assigned readings and with individual research. Students will write 8-9 one-page reaction papers, 3 take-home essays and give one 15-minute presentation.</td>
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**SPAN 3512 Modern Latin America**

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<th>Prereq</th>
<th>Instructor</th>
<th>Description</th>
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| A-F    | 3         | 3105S | O'Connell,Joanna | The territories collectively known as “Latin America” share elements of a common history as well as extraordinary variety and difference. We will examine some of the ways that one can think about Latin America as both an object of knowledge and as a site of multiple and changing identities. We will begin with issues of mapping, framing, and perspective to establish some core concepts, then study two cases that display how historical legacies and exchanges continue to be key in producing new subjectivities: food culture in Mexico (indigenous, European, mestizo) and music/dance in Cuba and Brazil (indigenous, European, African, “creole”). What new meanings continue to emerge as people, foods, songs, and rhythms circulate regionally and globally, and are rearticulated with the local, including in the Twin Cities? In addition to our use of traditional materials (maps, film, texts, images, etc), students will learn through experiences outside the classroom, whether online or in the community, and share their knowledge through analytical and creative projects. **Style:** 15% Lecture. 15% Film/Video, 25% Discussion. 15% Small Group Activities. 10% Student Presentation. 20% Web Based. ACTIVE learning is critical to this class. If you are not
willing to be an active learner, this class is not for you.

**Grading:** 20% mid exam, 20% final exam, 20% quizzes, 20% journal, 20% in-class presentation. The participation grade will include oral participation in class and written participation online in the class discussion forum and a blog-journal, group creation of online "in-class" presentations.

**Exam Format:** Midterm: identifications, short answer and essay. Final: essay

**SPAN 3702 Structure of Spanish: Morphology and Syntax**
3 credit(s); prereq 3107; Credit will not be granted if credit has been received for: SPAN 3702H;
Instructor: Ocampo, Francisco Antonio
Description: Student may contact the instructor or department for information.

**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: Sykes, Julie M
Description: Student may contact the instructor or department for information.

**SPAN 3707 Linguistic Accuracy Through Translation**
A-F only, 3 credit(s); prereq 3104 or 3105 or 3107;
Instructor: Face, Timothy L
Description: A variety of texts in Spanish will be examined in terms of style/audience/lexicon (popular press, business, academic, etc.) as a framework for training undergraduate students to communicate with accuracy in a variety of contexts. Students will learn/review the lexical and grammatical choices at their disposal and will also learn to apply these in producing an acceptable translation of a text. Translations will be both from Spanish into English and English into Spanish, as each of these forces students to make use of different aspects of their knowledge of the Spanish language.

**SPAN 3800 Film Studies in Spanish**
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
prereq 3104W or 3105W;
Instructor: Hellin-Garcia, Maria Jose
Description: Student may contact the instructor or department for information.

**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 3910 Topics in Spanish Peninsular Literature**
A-F only, 3 credit(s), max credits 9, 3 repeats allowed;
prereq 3104;
Instructor: Liu, Benjamin M
Description: Topic for Spring 2008. "SPAIN" AND "ISLAM" This course will examine the interactions between "Spain" and "Islam" from the Middle Ages to the present day. The course will explore, in part, the multifaceted meanings, moments and experiences encompassed under these abstract terms; in part, too, the interplay of national, ethnic, cultural and religious factors in constructing such complex identities as mozarabes, muladies, mudejares, or moriscos. Topics to be discussed may include: the cultural history of al-Andalus and its legacies in Europe and the Middle East; forms of encounter along the Christian-Muslim "frontier" (a term first used in this sense in medieval Iberia); early modern notions of Christian Reconquista and Spanish nationhood and empire; economies of gender and identity in the "Moorish novel"; Spanish Orientalism in 19th-century Romantic literature; 20th-century historiography of medieval Spain; and Maghrebi immigration in the Spanish imaginary as portrayed in late 20th-century periodicals and films. Evaluation will be based on midterm and final exams, a short writing assignment, a research paper, as well as active participation in class discussion. This course is taught in Spanish. Texts: * Constable, Olivia Remie, ed. Medieval Iberia: Readings from Christian, Muslim, and Jewish Sources. Philadelphia: U of Pennsylvania P, 1997. ISBN # 978-0812215694. * Anonimo. El Abencerraje. Ed. Francisco Lopez Estrada. Madrid: Catedra. ISBN: 84-376-0228-6. * Caradoso, Jose. Cartas maruercas. Madrid: Catedra. ISBN 84-376-0145-2. Other course readings will be assigned on the course web site as e-texts or as handouts.

**SPAN 3920 Topics in Spanish-American Literature**
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: Ramos-Garcia, Luis A
Description: Student may contact the instructor or department for information.

**SPAN 3920 Topics in Spanish-American Literature**
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: Howe, Alexis Lynn
Description: Description: This course aims to introduce students to Chilean narratives written after the 1973 coup d'etat. A variety of literary genres will be considered, including the novel, drama, testimonio, as well as texts that blur the boundaries between genres. Primary texts will be complemented by historical, critical, and theoretical texts. Students will also watch several Spanish language films that represent the coup and its aftermath (including both the dictatorship and post-dictatorship periods). Primary texts (printed in course pack available at Paradigm in January 2008): Hernan Valdes. Tejas Verdes: diario de un campo de concentracion en Chile; Isabel Allende. La casa de los espiritus (fragment) or De amor y de sombra; Roberto Bolaño. Estrella distante; Ariel Dorfman. La muerte y la doncella; Diemela Eltit. El infarto del alma (fragment)
Style: 30% Lecture, 10% Film/Video, 40% Discussion, 20% Student Presentation.
Grading: 50% reports/papers, 15% in-class presentation, 15% class participation, 20% Exams
Exam Format: Essay

**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: Ferran, Ofelia
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: 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: 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: Ferran, Ofelia
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 3972V; Meets CLE req of Writing Intensive;
Instructor: Ferran, Ofelia
Description: Student may contact the instructor or department for information.

**SPAN 3972W Graduation Seminar**
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 3972V; 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: Pilegas, Nelly
Description: Student may contact the instructor or department for information.

SPAN 4003 Intermediate Spanish
2 credit(s); prereq Grad student; Instructor: Pogatschnik, Mary Elizabeth
Description: Student may contact the instructor or department for information.

SPAN 4003 Intermediate Spanish
2 credit(s); prereq Grad student; Instructor: Conrado, Craig James
Description: Student may contact the instructor or department for information.

SPAN 4004 Intermediate Spanish
2 credit(s); prereq Grad student; Instructor: Castro, Cristina Isabel
Description: Student may contact the instructor or department for information.

SPAN 4022 Alternate Second-Semester Spanish
2 credit(s); prereq Grad student; Instructor: Powell, Kristin Ann
Description: Student may contact the instructor or department for information.

SPAN 5111 Contemporary Spanish Literature
3 credit(s); prereq Three 3xxx or 5xxx literature courses in Spanish or instr consent; Instructor: Ferran, Ofelia
Description: Student may contact the instructor or department for information.

SPAN 5721 Spanish Laboratory Phonology
A-F only, 3 credit(s); prereq [5711, honors] or grad student or instr consent; Instructor: Face, Timothy L
Description: Throughout this course we will study many of the ways that experiments of varying types (acoustic, perception, sociolinguistic, acquisition, etc.) can be used to investigate issues in Spanish phonology, from reconsidering traditional issues in Spanish phonology from a new, and often more enlightening, perspective, to investigating issues that cannot be examined without an experimental approach. We will read much of the literature that takes an experimental approach to Spanish phonology, discuss issues involved with conducting experiments, learn to design different types of experiments, and learn to critique experimental methods. Each student will also conduct an original research project on a topic of his/her interest using an experimental methodology.

SPAN 5985 Sociolinguistic Perspectives on Spanish in the United States
3 credit(s); prereq three 3xxx or 5xxx linguistics courses in Spanish or instr consent; Instructor: Klee, Carol Anne
Description: Spanish has had a presence in the North American territory that today constitutes the United States since the sixteenth century and its use has expanded extraordinarily since that time, particularly over the past fifty years. In Span 5985 we will examine issues such as the following in the diverse Spanish-speaking communities across the U.S.: the social, economic, and attitudinal factors that affect language maintenance and language shift in different Spanish-speaking communities; code-switching (i.e., the alternate use of Spanish and English), when it occurs and why, and what it reveals about the speakers' underlying competence in both languages; Spanghilish, what it is, who uses it and in what circumstances; attitudes of Spanish-speakers towards Spanish, English and Spanglish; how Mexican, Central American, and Caribbean varieties of Spanish have changed in bilingual communities; language policy issues, such as bilingual education and the English Only movement. The texts for the course include Rosaura Sanchez's Chicano Discourse. Socio-historical Perspectives , Carmen Silva-Corvalan's Language Contact and Change: Spanish in Los Angeles, and Ana Celia Zentella's Growing up Bilingual: Puerto Rican Children in New York, as well as selected articles.

Style: 30% Lecture, 30% Discussion, 30% Small Group Activities, 10% Student Presentation.
Grading: 30% mid exam, 30% final exam, 25% reports/papers, 5% class participation.
Exam Format: Essay

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: 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: Spadaccini, Nicholas
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: Ocampo, Francisco Antonio
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: Klée, 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: 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: Face, Timothy L
Description: Student may contact the instructor or department for information.

This information is accurate as of 9/15/2008 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.
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:

SLHS 1302 Rate Your World: Quantifying Judgments of Human Behavior  
3 credit(s); Meets CLE req of Mathematical Thinking Core; 
Instructor: Nelson, Peggy B  
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.  
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: Kohnert, Kathryn  
Description: Functional communication skills are essential to successful participation in all aspects of society and any breakdown in speech, language, or hearing ability will affect day-to-day living substantially. Normal speech, language and hearing abilities rely on basic neurological, cognitive, sensory, anatomical and physiological systems which come together and develop within social environments. Damage to any of these systems may result in a communication disorder. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, consequences, assessment, and treatment of these disorders within the context of normal human variation.  
Style: 70% Lecture, 20% Film/Video, 10% Small Group Activities.  
Grading: 40% mid exam, 50% final exam, 10% attendance. The completion of optional learning activities/assignments is available to students who would like to earn extra credit.  
Exam Format: T/F, Multiple Choice, Short essay

SLHS 1402 The Talking Brain  
3 credit(s); Meets CLE req of Social Science Core;  
Instructor: Watson, Peter J  
Description: This course examines the relationship of human communication and its disorders to our biological makeup. We first discuss the origin of language, how the brain is involved in language and speech, do animals talk, are there differences between how men and women communicate based on biology, and the ways we investigate the involvement of our nervous system in communication. In the latter part of the class we discuss the difference between communication differences (dialects, second language users) and disorders, and how different brain abnormalities affect our ability to communicate. Interspersed throughout the course, we look at the how society views and understands communication disorders and differences. This is done by looking at movies and reading books. The movies and books are stories of individuals who have different communication disorders -- biographical or fiction. For example one of the movies that we consider is "Rain Man", the story of an adult autistic savant and his relationship with his brother. The course is made up of lectures and small group exercises. Readings are from one textbook and from a collection of articles, most of which are drawn from popular magazines and journals (e.g. Newsweek, Time, and Scientific American). The major writing assignments are reports on one movie and one book selected from a list provided by the instructor. In addition to the reports there are three "objective" tests (multiple choice,
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 overarching 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 experiences. 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 3306 Hearing Science
3 credit(s); prereq [3301, 3302] or [Cdis 3301, Cdis 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: Kohnert,Kathryn
Description: Functional communication skills are essential to successful participation in all aspects of society and any breakdown in speech, language, or hearing ability will affect day-to-day living substantially. Normal speech, language and hearing abilities rely on basic neurological, cognitive, sensory, anatomical and physiological systems which come together and develop within social environments. Damage to any of these systems may result in a communication disorder. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, consequences, assessment, and treatment of these disorders within the context of normal human variation.
Style: 70% Lecture, 20% Film/Video, 10% Small Group Activities.
Grading: 40% mid exam, 50% final exam, 10% attendance. The completion of optional learning activities/assignments is available to students who would like to earn extra credit.
Exam Format: T/F, Multiple Choice, Short essay

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: 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: Nelson,Peggy B
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: Kohnert,Kathryn
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: Watson,Peter J
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: 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: 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: Deroit, 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: Kohnert, 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: 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: Zhang, Yang  
Description: Student may contact the instructor or department for information.

SLHS 4502 Atypical Speech and Language  
3 credit(s);  
Instructor: Sax, Arlene Earley  
Description: Student may contact the instructor or department for information.

SLHS 4603 Communication and Autism  
3 credit(s);  
Instructor: Reichle, Joe E  
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: Rao, Aparna  
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: Poluha, Patricia Catherine  
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 5603 Language and Cognitive Disorders in Children  
3 credit(s); prereq 3303 or CDis 3303 or equiv or grad student or instr consent;
**SLHS 5805 Advanced Rehabilitative Audiology**

A-F only, 3 credit(s); prereq 4802 or [equiv, 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:** Nie,Yingjiu

**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 8410 Seminar: Research**

3 credit(s);

**Instructor:** Nelson,Peggy B

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

**SLHS 8430 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:** Windsorn,Jennifer

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

**SLHS 8530 Seminar: Speech**

3 credit(s), max credits 12, 4 repeats allowed;

**Instructor:** Zhang,Yang

**Description:** Selected imaging techniques, including electroencephalography (EEG), MEG (magnetoencephalography), OT (optical topography), and fMRI (Functional Magnetic Resonance Imaging), are introduced in this seminar. Discussion consists of five major areas: (a) theory, (b) experimental design, (c) data collection and analysis, (d) issues for special populations such as newborns, and (e) research and clinical studies. Reading materials will cover research papers on speech, language, hearing, visual perception, and other aspects of cognition. A variety of delivery formats will be used, including video demonstrations, guest lectures, hands-on experiments, and software packages tutorials including ASA, BESA, BrainVoyager, Neuromag, and EEGLAB. Students have the option of attending some lectures offered in the following joint seminars in the Department of Psychology to fulfill the course requirements. Steve Engel (engel@umn.edu) Advanced Techniques in Human Neuroimaging Psy 8960-004 (91384) 3 credits; Sheng He (sheng@umn.edu) Vision and Attention Psy 8960-003 (90262) 3 credits; Dan Kersten (kersten@umn.edu) Computational Vision: Psy8036 (89190) 3 credits

**Style:** 30% Lecture, 20% Discussion, 10% Laboratory, 10% Small Group Activities, 20% Student Presentation, 10% Demonstration.

**Grading:** 30% reports/papers, 30% in-class presentation, 20% class participation, 20% laboratory evaluation.

**SLHS 8630 Seminar: Language**

3 credit(s), max credits 12, 4 repeats allowed;

**Instructor:** Kennedy,Mary R T

**Description:** Self-regulation has been characterized as an executive control process, associated with frontal lobe and cingulate activity. Various theories about self-regulation will be explored, including its neurobiology, and issues related to 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.

**Instructor:** Kohiert,Kathryn

**Description:** COURSE TITLE IS: CLINICAL ISSUES IN BILINGUALISM AND CULTURAL DIVERSITY This course will survey topics in cultural diversity, bilingualism and second

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training and generalization. Readings will include selections from the Handbook of Self-Regulation and current research of SR in typically developing children and adults, as well as populations with special needs, such as those with attention deficit disorder, individuals with challenging behavior, language-learning disabilities, brain injury, etc. Graduate students in speech-language-hearing sciences, cognitive psychology, child development, neuropsychology and rehabilitation are encouraged to enroll. Students will have the opportunity to research the scientific literature as it applies to their discipline and interests.

**Style:** 20% Lecture, 60% Discussion, 20% Student Presentation.

**Grading:** 35% reports/papers, 35% special projects, 30% in-class presentation.

**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 instr 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 instr 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 instr consent;
Instructor: Deruiter, Mark
**Description:** Student may contact the instructor or department for information.

**SMGT 1701 Introduction to Sport Studies**
A-F only, 2 credit(s);
Instructor: Soroka, Matthew Alan
**Description:** Scope/motive of the study of sport from sociological, psychological, historical, economic, and scientific perspective. Issues in sport.
SMGT 3111 Sports Facilities
A-F only, 2 credit(s); prereq SMGT major;
Instructor: Walsh, Patrick T
Description: This course is designed to provide the student with knowledge pertaining to the various aspects of managing a sport facility and the events which take place within these facilities. Some of the topics discussed include operations, scheduling, marketing, ticketing, finance, sponsorship, and event management. Students will have the opportunity to discuss and present various issues that relate to the management of sport facilities and events. In addition, students will have the opportunity to apply knowledge gained through lecture and in class exercises by viewing a sports event and critiquing various facility management functions during the event, and by developing a sports event management plan.
Style: 50% Lecture, 20% Discussion, 20% Small Group Activities, 5% Field Trips, 5% Guest Speakers. Sport Facility Tours
Grading: 25% final exam, 40% reports/papers, 25% in-class presentation, 10% class participation.
Exam Format: Combination of multiple choice and short answer problems.

SMGT 3143 Organization and Management of Sport
A-F only, 3 credit(s); prereq SMGT major;
Instructor: Brownlee, Eric A
Description: This course is designed to introduce the fundamental framework of the industry with an emphasis on sports. Current issues and trends in both the traditional and sports business world will be discussed. Emphasis will be placed on the application of management concepts and techniques to various parts of the sport management field, including the professional, collegiate, high school and non-profit areas. The goal of this course is to provide the future sports professionals with a broad perspective of how to view issues and problems that may develop during their careers and to attempt to increase their ability to successfully manage people, time, and business.
Style: 60% Lecture, 5% Discussion, 20% Small Group Activities, 5% Guest Speakers.
Grading: 30% mid exam, 30% final exam, 30% special projects, 5% class participation.

SMGT 3421 Business of Sport
A-F only, 2 credit(s); prereq SMGT or kin or rec major or instr consent;
Instructor: Lee, Seungbum
Description: In recent years, traditional sources of revenue, such as tax support and gate receipts, have declined while costs have escalated. Increased demand for state-of-art facilities, coupled with an increase in player and operational costs, have forced sport managers to do more with less. This course is designed to provide students with an introduction to financial analysis including discussion of traditional and innovative revenue producing strategies available to sport organizations. Along with more conventional income sources such as tax support, municipal and corporate bonds, ticket sales, concessions and fund raising, students will receive in-depth exposure to more recent innovations.
Style: 30% Lecture, 20% Discussion, 30% Small Group Activities, 15% Student Presentation, 5% Guest Speakers.
Grading: 25% final exam, 10% reports/papers, 15% written homework, 10% reflection paper, 15% in-class presentation, 25% class participation.
Exam Format: Multiple choice, short essay, etc.

SMGT 3501 Sport in a Diverse Society
A-F only, 3 credit(s); prereq SMGT major; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Buysse, Jo Ann
Description: Sport is symbolic of the larger social order and the meanings of sport are tied to cultural perceptions and evaluations. Societal beliefs about values and norms are intimately related to sport as it mirrors society in its practices and experiences. The study of sport encompasses a wide variety of issues which are reflected by the many different cultures that engage in sport. This course is designed to examine the pervasive and significant relationship between sport and contemporary social institutions such as politics, religion, economics, education and the mass media. Its primary emphasis will be to introduce students to a broad perspective of social issues related to sport, while at the same time, provide students with an opportunity to critically explore their knowledge base and increase their understanding of issues related to gender and diversity in sport. Students will be exposed to the contributions and experiences of groups of individuals who have historically been marginalized or excluded from sport participation. Particular emphasis will be given to the social construction of gender and the role that sport has played in gender differentiation and gender hierarchy. Variables such as race, sex, social class, sexual orientation and physical disabilities will be emphasized. Although the goal of this course is to address critical issues and question current practices in sport, students will also learn and develop important critical reading, writing, thinking, and discussion skills.
Style: 30% Lecture, 20% Discussion, 20% Small Group Activities, 15% Guest Speakers, 15% Service Learning.
Grading: 25% mid exam, 25% final exam, 35% reports/papers, 15% attendance.

SMGT 3601 Ethics and Values in Sport
A-F only, 2 credit(s); prereq SMGT major; 3611 recommended;
Instructor: Buysse, 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.
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: Oml, PhD, Jens
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.

SMGT 3681 Legal Aspects of Sport
A-F only, 2 credit(s); prereq SMGT major;
Instructor: Allison JD, Rayla
Description: U.S. legal system, its structure/terminology. Sport legal aspects of contract law, statutory law, constitutional law, intellectual property, negligence, risk management. Managerial analysis, decision making.

SMGT 3881W Senior Seminar in Sport Studies
A-F only, 3 credit(s); prereq SMGT major, completion of major coursework, instr consent; Meets CLE req of Writing Intensive
Instructor: Allison JD, Rayla
Description: Presentations/discussions on sport-related topics of interest.

SMGT 3881W Senior Seminar in Sport Studies
A-F only, 3 credit(s); prereq SMGT major, completion of major coursework, instr consent; Meets CLE req of Writing Intensive
Instructor: Allison JD, Rayla
Description: Presentations/discussions on sport-related topics of interest.
Intensive;  
Instructor: Brownlee,Eric A  
Description: Presentations/discussions on sport-related topics of interest.

SMGT 3996 Practicum: The Sport Experience  
S-N only, 1-10 credit(s), max credits 10, 10 repeats allowed; prereq 3881, SMGT major, instr consent;  
Instructor: Buyssse,Jo Ann  
Description: This is an experiential learning course where students learn and work in a professional organization outside of the classroom. This course is designed for Sport Studies majors only. It is their final core course. It is similar to an internship, with the exception that practicum credits may be divided between two semesters and also between two sites.  
Style: field experience  
Grading: 20% reports/papers, 80% other evaluation. Supervisor evaluation of work

SMGT 3996 Practicum: The Sport Experience  
S-N only, 1-10 credit(s), max credits 10, 10 repeats allowed; prereq 3881, SMGT major, instr consent;  
Instructor: Allison JD, Rayla  
Description: Practical experience in one or more sport settings.

SMGT 3996 Practicum: The Sport Experience  
S-N only, 1-10 credit(s), max credits 10, 10 repeats allowed; prereq 3881, SMGT major, instr consent;  
Instructor: Brownlee, Eric A  
Description: Practical experience in one or more sport settings.

Statistics  
313 Ford Hall

STAT 4102 Theory of Statistics II  
4 credit(s); prerequisite 4101; Credit will not be granted if credit has been received for: STAT 5102;  
Instructor: Rendahl, Aaron K  
Description: Student may contact the instructor or department for information.

STAT 5102 Theory of Statistics II  
4 credit(s); prerequisite 5101 or Math 5651; Credit will not be granted if credit has been received for: STAT 4102;  
Instructor: Chatterjee, Singhdansu Bhusan  
Description: This is the second part of a paired course, the first part being Stat5101. In this course we discuss theories involving estimation techniques, sampling distributions of estimators, hypothesis testing theory, linear regression and some parts of categorical data analysis and nonparametric statistics. Stat5101 (or Math5651) is a necessary prerequisite for this course.

STAT 5102 Theory of Statistics II  
4 credit(s); prerequisite 5101 or Math 5651; Credit will not be granted if credit has been received for: STAT 4102;  
Instructor: Zou, Hui  
Description: Student may contact the instructor or department for information.

STAT 5201 Sampling Methodology in Finite Populations  
3 credit(s); prerequisite 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.

STAT 5302 Applied Regression Analysis  
4 credit(s); prerequisite 3022 or 4102 or 5021 or 5102 or instr consent;  
Instructor: Cook, Christopher Peter Arthur  
Description: Student may contact the instructor or department for information.

STAT 5302 Applied Regression Analysis  
4 credit(s); prerequisite 3022 or 4102 or 5021 or 5102 or instr consent;  
Instructor: Zhang, Bo  
Description: STAT 5302 - Applied Regression Analysis (4.0 cr; Prereq-3022 or 4102 or 5021 or 5102 or #; fall, spring, summer, every year) Simple, multiple, and polynomial regression. Estimation, testing, prediction. Use of graphics in regression. Stepwise and other numerical methods. Weighted least squares, nonlinear models, response surfaces. Experimental research/applications.  
Style: 100% Lecture.  
Grading: 30% mid exam, 50% final exam, 20% written homework.

STAT 5303 Designing Experiments  
4 credit(s); prerequisite 3022 or 4102 or 5021 or 5102 or instr consent;  
Instructor: Corbett, John Paul  
Description: Student may contact the instructor or department for information.

STAT 5401 Applied Multivariate Methods  
3 credit(s); prerequisite 5302 or 8102 or instr consent;  
Instructor: Qiu, Peihua  
Description: Student may contact the instructor or department for information.

STAT 8052 Applied Statistical Methods 2: Design of Experiments and Mixed -Effects Modeling  
A-F only, 4 credit(s); prerequisite 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); prerequisite 8051 or instr consent;  
Instructor: Wei, Xiaqiao  
Description: Student may contact the instructor or department for information.

STAT 8054 Statistical Methods 4: Advanced Statistical Computing  
A-F only, 2 credit(s); prerequisite 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); prerequisite 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); prerequisite 8111;  
Instructor: Jones, Galin  
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; prerequisite Grad stat major or instr consent;  
Instructor: Weissberg, Sanford  
Description: Student may contact the instructor or department for information.
Description: Student may contact the instructor or department for information.

STAT 8811 Statistical Consulting Practicum
S-N only, 3 credit(s); max credits 12, 4 repeats allowed; 
prereq Statistics grad student or instr consent; 
Instructor: Weisberg,Sanford 
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 8931 Advanced Topics in Statistics: 
Inequality-Constrained Statistical Inference 
3 credit(s); max credits 12, 4 repeats allowed; 
Instructor: Geyer,Charles J 
Description: Student may contact the instructor or department for information.

STAT 8932 Advanced Topics in Statistics: 
Elements of Statistical Learning 
3 credit(s); max credits 12, 4 repeats allowed; 
Instructor: Zou,Hui 
Description: Student may contact the instructor or department for information.

ScMC 3201 Fundamentals of Digital Filmmaking 
A-F only, 4 credit(s); prereq instr consent; 
Instructor: Horan Jr,John Joseph Patrick 
Description: Student may contact the instructor or department for information.

ScMC 5001 Critical Debates in the Study of Cinema and Media Culture 
4 credit(s); 
Instructor: Johnson,Kiel Wayne 
Description: ScMC 5001 offers an overview of the critical debates that historically have shaped and continue to inform the study of film and media culture. We will consider a series of key theoretical and material contestations within academic discourse and daily life, with discrete units focusing on (among other things) the image and representation; the hegemony of oculocentricism; political economy; spectatorship/reception; globalization/cultural imperialism; and the oft-abused watchword that organizes it all today, ?postmodernity.? We will pay particular attention throughout to ways the emergence of ?new media? and the expansion of global capital continue to force critical rethinking of classical (and predominantly cinematic) theoretical models of media production, representation, and reception. Students are expected to have some prior acquaintance with the basic concepts, vocabularies, and trends in cinema and media studies.

Surg 11-100 Phillips Wangensteen Bldg (Box 195)

Surg 8293 Applied Statistics 
S-N only, 1 credit(s); prereq 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.

Sustainable Agricultural Systems
411 Borlaug Hall

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 
4 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.

TMJP 8441 Seminar in TMJ and Craniofacial Pain 
A-F only, 1 credit(s); 
Instructor: Mulet Pradera DDS,MS,Mariona 
Description: Student may contact the instructor or department for information.

TMJP 8442 Advanced Clinical TMJ and Craniofacial Pain 
A-F only, 1-4 credit(s); max credits 4, 1 repeat allowed; 
prereq Participation in TMJ and orofacial pain advanced education program; 
Instructor: Mulet Pradera DDS,MS,Mariona 
Description: Student may contact the instructor or department for information.

Teaching English as a Second Language
214 Nolte Center

TESL 3001 Basics in Teaching English as a Second Language 
4 credit(s); prereq Have studied another language, [native speaker or (C-TOEFL score of at least 213 or equiv)]; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme;
Instructor: Margolis, Douglas
Description: This practical course is designed to prepare you to tutor ESL to adults in community programs or abroad by providing you with a basic orientation to current theories, methods and techniques of English as a second language (ESL) instruction. Through lecture, demonstrations, discussions, group work, and practice teaching, the course emphasizes the methodologies and techniques for teaching and assessing the skills of listening, speaking, pronunciation, reading, and writing.
Your reading and classroom lectures will provide you with an introduction to the phonological and syntactic systems of English. In addition, you will study the language learning processes of adults, considering the linguistic, psychological and socio-cultural factors which influence the process. You will learn something about the language and culture of immigrant groups currently residing in the Twin Cities, including Hmong, Somali, and Hispanic languages and cultures. You will become aware of the interrelationship of language and culture and how that influences learning. The various contexts of teaching English to literate and non-literate adults in the U.S. and abroad will be addressed. As you read and discuss these issues in class, you will observe ESL classes taught at the University or in the Twin Cities. An internship at a school or agency teaching ESL is required and will be arranged at the beginning of the course through the Career and Community Learning Center. The class will support the internship experience as you and your fellow students analyze the instructional settings and your teaching practices during the week. 4 credits Meets CLE requirement of Citizenship/Public Ethics Theme; meets CLE requirement of Cultural Diversity Theme. This course is also part of the TESL minor. Questions? Contact: Dr. Doug Margolis margolis@umn.edu

Style: 15% Lecture, 20% Discussion, 35% Small Group Activities, 10% Student Presentation, 20% Guest Speakers. Note: service learning is a large part of this course, but occurs outside of class time.

Grading: 15% reports/papers, 30% quizzes, 20% reflection paper, 15% class participation, 20% other evaluation. The reflection papers are part of the internship requirement. The internship results in 40% of the grade, 20% for the reflection papers and 20% for fulfilling the internship requirements.

Exam Format: Exams require the student to provide short answers and essays.

TESL 5301 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 method. 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
4 credit(s); prereq Ling 5001 or Ling 5001 or instr consent
Instructor: Taroni, Elaine E
Description: This is the first in a two-semester class sequence which provides students with a thorough description of the grammar and phonology of the English language, so that students will be better prepared to teach that language to others. In this first semester, the beginning unit will focus on English phonetics and phonology, and the related topic of spelling. Subsequent units will focus on the simple sentence in English, providing an accurate description of the rules for basic English word order, subject-verb agreement, tense and aspect, modal auxiliaries, negation, imperative and question forms. The orientation is in all cases to relate the form of the English language to its function in discourse, and to explore methods for successfully teaching the language to others. Classes are devoted to discussions of related readings, with short student presentations. Students will take several short exams on the course content. Graduate students will write a short paper on one of the structures studied during the semester, exploring its form, meaning & use in some depth. (The second class in the sequence, TESL 5402, will examine English articles, passive voice, indirect objects, prepositions and phrasal verbs, conditional sentences, relative clauses, complementation and reported speech.)

Style: 25% Lecture, 75% Discussion.
Grading: 20% reports/papers, 60% quizzes, 10% in-class presentation, 10% class participation. Undergraduates' grades will depend more on presentations, participation, quizzes

Exam Format: short answer essay.

TESL 5402 Language Analysis for Teachers of English as a Second Language
4 credit(s); prereq 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 and phrasal verbs, conditional sentences, 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; prereq [[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: Lazaraton, Anne
Description: This course provides practical, hands-on experience in teaching English as a second language to adults. The teaching experience involves applying, in a practical context, the theoretical and descriptive material studied in the ESL M.A. program. Prerequisites: TESL 5721. TESL 5401, concurrent enrollment in or completion of TESL 5402, and permission of instructor. Class is limited to M.A. ESL majors; enrollment is usually capped at 10.

Style: 10% Discussion. participation in apprenticeship placement
Grading: 10% class participation, 90% other evaluation. improvement in ESL teaching performance

TESL 5900 Topics in Second Language Learning and
Teaching: Error Feedback
3 credit(s); max credits 12, 4 repeats allowed;
Instructor: Margolis, Douglas
Description: Error feedback is an important source of linguistic data. Some theorists believe that error feedback orientates student attention to form when the student may be most able to comprehend and receive it. This graduate seminar investigates error feedback practices in second and foreign language teaching and learning contexts to better understand how this process might work and how teachers and learners may enhance the benefits of error feedback. The goal of this class is to examine the published research on error feedback and consider what those findings have to offer teachers, particularly in terms of five questions: a) is error feedback worth class time; b) when would error feedback be most effective; c) which errors should be addressed; d) how should error feedback be given; and e) with what objective should teachers provide error feedback. Course requirements include readings, discussions, transcription and analysis of classroom interactions, a presentation on a seminal paper in the field, and a presentation and paper describing a proposal for an original research paper in an area of error feedback customized to address the student's research interests.
Style: 20% Lecture, 5% Film/Video, 45% Discussion, 25% Student Presentation, 5% Guest Speakers.
Grading: 40% reports/papers, 40% in-class presentation, 20% class participation.

TH 1101V Honors Section: Introduction to the Theater
A-F only, 4 credit(s); prereq Honors; Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Lewis, Megan
Description: TH1101 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 (acting is required). For students interested in medicine, TH1101 emphasizes the well-being of the soul through collaborative exchange. A-F only, prereq 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 Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Lewis, Megan
Description: TH1101 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, TH1101 introduces diversity and celebrates creativity; For students interested in business and law, TH1101 promotes collaboration and critical thinking and enhances oral communication skills; For students interested in the sciences, TH1101 strengthens interpersonal communication skills and promotes right-brain activity; For students interested in engineering and math, TH1101 encourages abstract thinking and creative application of knowledge; For students interested in the humanities, TH1101 explores the human experience and the intersections of art, history, and culture; For students interested in medicine, TH1101 emphasizes the well-being of the soul through collaborative exchange. A-F only, prereq Honors, meets Lib Ed req of International Perspective Theme; meets Lib Ed req of Writing Intensive; meets Honors req of Honors
Style: 40% Lecture, 5% Film/Video, 45% Discussion, 25% Student Presentation, 5% Guest Speakers.
Grading: 40% reports/papers, 40% in-class presentation, 20% class participation.

TH 1102 Drama and the Media
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Lewis, Megan
Description: The first half of this introductory level course will explore the following questions: What are THE MEDIA? What is DRAMATIC about them? How are media CONSTRUCTED? PRODUCED? RECEIVED and UNDERSTOOD? How do media MAKE MEANING? And how do media function as STORIES cultures tell themselves to define themselves? The second half of the class will focus on several in-depth case studies, including The Documentary Form, Africa in Film, Advertising & Culture Jamming, and other compelling topics. We will examine these fertile issues through selected readings, video and film clips viewed in class, class discussions and small group work, and online exercises. We end the course with an opportunity to MAKE MEDIA through a collaborative radio drama project.
Students will explore the dramatic potential of a single medium (radio) in creative collaboration. In small groups, you will write, direct, rehearse and perform a radio drama, complete with sound effects. The dramas will be recorded in front of a live studio audience: the class!
Style: 25% Lecture, 25% Film/Video, 25% Discussion, 15% Small Group Activities, 5% Guest Speakers, 5% Web Based.
Grading: 25% mid exam, 25% final exam, 15% special projects, 10% attendance, 10% reflection paper, 15% class participation.

TH 1321 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, Donna A
Description: Student may contact the instructor or department
TH 1322 Creating the Performance
3 credit(s); prereq 1321;
Instructor: Channer, Lisa E
Description: Student may contact the instructor or department for information.

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 1911W Freshman Seminar: Theatre, Entertainment With Attitude
A-F only, 3 credit(s); prereq Fr with no more than 30 cr;
Meets CLE reg 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 of 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

TH 2395 BFA Acting IV
A-F only, 3 credit(s); prereq BFA-ACTING sophomore;
Instructor: Mitchell, Kenneth N
Description: Student may contact the instructor or department for information.

TH 3120 Theatre: Theory and Practice
3 credit(s), max credits 6; prereq 1101;
Instructor: Martinovich, Kay
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: Kobiak, Michal A
Description: The course focuses on a critical examination of representational practices in the period from the Age of Enlightenment until the Postmodern. While reviewing these representational practices, which materialize as play-texts, performances, theatre architecture, theatre rebellions and regulations, theoretical writings, etc., the students will discuss how they were produced, given intelligibility, and disseminated. What are the consequences of using or promoting these and not other representational practices? In order to answer this question, the students will explore the discourses and discursive formations which link themselves or are linked to these practices, while, at the same time, they will study theatre historiography-a practice of investigating how legible performance events are brought to our attention by the past and present imaginations, how they are made worthy of notice, and how they are rationalized as significant for theatre history.
Style: 70% Lecture, 30% Discussion.
Grading: 10% class participation, 90% other evaluation. exams
Exam Format: essay--the student is asked to answer four questions during the exam

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, abdominal 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.
Exam Format: presentations

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 corporeal 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 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
Exam Format: performance presentations

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 in 3515;
Instructor: Longhi, Kym R
Description: The course focuses on the design and production concepts and skills for stage productions in a practical and project-based setting. Students will work on the design, coordination, and execution of scenic, lighting, sound, and costume elements in the production of a full-scale stage production. Students will be responsible for the technical execution of their designs and will work closely with directors, actors, and other production staff to ensure the realization of the production vision. The course will cover topics such as design process, design and construction of scenic elements, lighting design and rigging, and sound design and cueing. Students will gain hands-on experience in the technical aspects of theatre production and will develop skills in teamwork, communication, and problem-solving.
Style: 40% Lectures, 60% Lab.
Grading: 40% Performance, 40% Design, 20% Participation.
Exam Format: performance presentations
Instructor: Lefebvre, Mathew James
Description: This course explores the theory and execution of theatre design and technology from the script to the production on stage. Students will be exposed to the design process and participate in understanding what it takes to move design into production and performance. The focus of this class is costumes and lighting. The projects and the laboratory will give the student hands-on experience in the principles and processes discussed in class. The course is divided in half: one half of the semester is lighting; the other costumes. Each segment culminates in a major project and an exam on the material covered in that segment. The laboratory can be 4 scheduled hours per week or performance-oriented (section 12).
Style: 50% Lecture, 50% Discussion.
Grading: 15% mid exam, 15% final exam, 20% reports/papers, 20% special projects, 30% laboratory evaluation.
Exam Format: short answer -- all types

TH 3515 Design and Technical Production II
4 credit(s); prereq 1101;
Instructor: Montgomery, Jean A
Description: This course explores the theory and execution of theatre design and technology from the script to the production on stage. Students will be exposed to the design process and participate in understanding what it takes to move design into production and performance. The focus of this class is costumes and lighting. The projects and the laboratory will give the student hands-on experience in the principles and processes discussed in class. The course is divided in half: one half of the semester is lighting; the other costumes. Each segment culminates in a major project and an exam on the material covered in that segment. The laboratory can be 4 scheduled hours per week or performance-oriented (section 12).
Style: 50% Lecture, 50% Discussion.
Grading: 15% mid exam, 15% final exam, 20% reports/papers, 20% special projects, 30% laboratory evaluation.
Exam Format: short answer -- all types

TH 3950 Topics in Theatre: New Voices Creations
1 credit(s), max credits 8, 8 repeats allowed; prereq Varies by topic;
Instructor: Seifert, Luverne G
Description: Creating any kind of ensemble work requires a space where people feel safe taking personal, creative risks. In this three-week workshop, students will learn methods to build and maintain the safe space necessary for ensemble creation. Students will work together to create, rehearse and perform their own original ensemble theater performance. Students interested in education, social justice, arts literacy, theatre or group work of any kind are strongly encouraged to register for this class. Jan Mandell: Jan is best known for her work with Central Touring Theatre at St. Paul Central High School where she creates a safe space for students to write, perform and tour original plays, bringing the voices youth to the people in their communities. Jan has been doing this work at St. Paul Central High School since 1979. She is also an instructor at the University of Minnesota in the Youth Studies Department. Jan co-authored Acting Learning And Change, a theatre methods books published by Heinemann. For the past four years she has been working with the Arts Literacy Project at Brown University in Providence, RI in an effort to deepen the connection of her current work to the fight for literacy. Jan is now sharing her knowledge with the Twin Cities community in her position as a Teacher On Special Assignment (TOSA) with the St. Paul Public Schools.

TH 3950 Topics in Theatre: Circus Performance
1 credit(s), max credits 8, 8 repeats allowed; prereq Varies by topic;
Instructor: Emery, Margaret
Description: Aerial Techniques introduce you to the single trapeze and the Spanish web. Both of these skills will require improved strength, flexibility and mental focus. Tricks on the trapeze include pull ups, angels, splits (under bar), sits and stands, cradles and double cradles as well as knee hangs and one knee hangs. Web tricks will involve the climb, loop work (hand and foot) and loopless knots. Equilibristics will include the balancing of ones self through handstands, headstands and pyramids. Acrobatics will include forward and backward rolls, two person tank rolls, dive rolls and some basic flips and tumbles. Also you will learn to balance sticks and other linear objects. Juggling will teach you hand-eye coordination as well as the process of learning through repetition. It also teaches patience and focus. Juggling will begin with a basic three ball cascade. These steps will be broken down from one to three balls. Other juggling props will then be introduced such as rings, hats, cigar boxes, canes, plates etc.

TH 4115 Intermediate Playwriting
3 credit(s); prereq 3115 or [writing sample, instr consent ];
Instructor: Obolensky, Kira
Description: Student may contact the instructor or department for information.

TH 4178W Survey of Dramatic Literature II: Representation and its Effects
3 credit(s); prereq [3171, 3172], [jr or sr] or instr consent; Meets CLE req of Writing Intensive;
Instructor: Werry, Margaret L
Description: This course is the second part of a two-course sequence designed to introduce students to strategies for the analysis of dramatic literature. By working with a range of play texts, critical essays, and theoretical interventions, this course explores theatre as a space for creative engagement and critical thought that can happen both on the stage and on the page. In practical exercises, lecture, discussion, and writing, students examine the ways in which dramatists engage with pressing cultural problems by revisiting and reinterpreting canonical works of dramatic literature. The course understands theatre as a broad cultural practice, and so includes works of popular theatre alongside classical texts, performance art alongside traditional play scripts, and covers a range of non-western material. Note: This course is listed as a writing intensive course, and thus a significant component of the course focuses on training students to express their responses to dramatic literature in written form.
Style: 35% Lecture, 65% Discussion.
Grading: 45% reports/papers, 25% class participation, 30% other evaluation. performance project

TH 4322 Acting for the Camera
3 credit(s); prereq 1301 or 3321;
Instructor: Diercks, Shirley V
Description: Student may contact the instructor or department for information.

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: This course will be an in-depth approach to the area of Video Technology. By the end of the course the student 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 field. We will also discuss the specifics of video protocols and formats. The creative discussions in the class will include aesthetics, continuity, and composition. The students understanding of the topics and techniques discussed in this course will culminate in their final project. This course has no pre-requisites and is open to any student on campus who has an interest in video or film production. It is also the gateway into the other video production courses within the department including
TH 4560 Preproduction for Film/Video, TH 5550 Video Project, TH 5551 Editing & Postproduction, TH 4554 Graphics and Animation for Film/Video, TH 4557 Audio for Film/Video, TH 5553 Video Production and Aesthetics, and TH 5554 Multimedia Production for Live Performance. Realize we will meet only 7 Saturdays out of the term.

**Style:** 30% Lecture, 20% Discussion, 30% Laboratory.

**Grading:** 10% mid exam, 15% final exam, 30% special projects, 5% quizzes, 25% laboratory evaluation, 15% problem solving.

**Exam Format:** Multiple choice, true and false, short answer, definition.

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**TH 4556 Digital Audio and MIDI for Performance**

3 credit(s);

**Instructor:** Gwinup, Martin Bruce

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

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**TH 4560 Pre-Production and Planning for Video and Film**

3 credit(s); prereq 4550, instr consent;

**Instructor:** Gwinup, Martin Bruce

**Description:** One of the most important components of any film for major release, video, or broadcast is the preproduction planning. In this course the students will learn about organization, management, fund raising, script development, hiring, casting, equipment lists, location scouting, etc. The main project for the class will cover these topics as they relate to the project that will be shot in TH 5550 Video Project during the summer. Students taking this class are invited to participate in this summer course. Students in the class will take a major role in the preproduction planning for this project.

**Style:** 30% Lecture, 30% Discussion, 40% Laboratory.

**Grading:** 50% special projects, 10% quizzes, 20% class participation, 20% problem solving.

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**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.

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**TH 5181 Blacks in American Theatre**

3 credit(s); Credit will not be granted if credit has been received for: AFRO 5181;

**Instructor:** Bellamy, Louis Richard

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

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**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 two-dimensional or 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.

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**TH 5540 Lighting Design for the Theatre**

3 credit(s), max credits 9, 3 repeats allowed; prereq 3515 or grad or instr consent;

**Instructor:** Montgomery, Jean A

**Description:** This course covers the theory and principles of theatre lighting design. Class format is lecture, discussion, and practical laboratory where students have the opportunity to participate in their own experiments in color and design theory. There are also guest lighting designers from the mainstage season of the University Theatre who lead demonstrations of their designs for actual productions for various stage forms. Students will develop a light plot and paperwork for at least one lighting design in the theatre of their choice in Rarig Center. For non-theater majors, there are alternatives to this requirement, discussable with the instructor. The use of computers in lighting design and paperwork will be discussed and practical experience in using computers for this part of the design is available as part of the course. Undergraduates with a theater design background (Th 3515), graduate/upper level students with an architecture or art background interested in lighting would be welcome. Note: Section 2 is a practical extension of the coursework covered in Section 1. It is intended for students who have already completed Section 1 in a previous semester. Course content is developed to meet the lighting design interests of the class participants.

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**TH 5556 Audio Engineering**

3 credit(s); prereq 4555, instr consent;

**Instructor:** Gwinup, Martin Bruce

**Description:** What is the best way to record an acoustic guitar? How should you set up microphones to record a grand piano? Should I record the bass amp or should I take a direct line? How should I place the instruments in this mix? These questions and many others are asked and answered in this course. The students get hands on training in the areas of micing, mixing, and recording music in a studio environment. Bands are brought in and the students take on responsibilities such as, engineer, Studio Technician, Producer, etc. Everyone will get hands on access to a modern equipped recording studio and gain experience on mixing with a state of the art digital console. TH 4555 Audio Technology is a prerequisite for this course.

**Style:** 30% Lecture, 20% Discussion, 50% Laboratory.

**Grading:** 20% quizzes, 60% laboratory evaluation, 20% other evaluation. Attendance

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**TH 5560 Drawing, Rendering, and Painting for the Theatre Designer II**

3 credit(s); prereq 5150;

**Instructor:** Lefebvre, Mathew James

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

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**TH 5570 Properties/Scenery Technology**

1-3 credit(s), max credits 15, 15 repeats allowed; prereq 3515 or grad or instr consent;

**Instructor:** Brockman, C Lance

**Description:** This section of 5570 is specifically for Scene Painting: The Historical Method. Students will learn the basics of illusionary painting and how to create faux finishes and trompe l'oeil consistent with methods of Victorian scenic artist. Students will work through a series of projects that include sight-sizing, value study, and color manipulation. Advance students will participate on large-scale projects for the Minnesota Centennial Showboat. Instructor's permission is required.

**Style:** 100% Laboratory.

**Grading:** 100% laboratory evaluation.

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**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 construction and the rigging of scenery. Style: 75% Lecture, 25% Laboratory.

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**TH 5580 Costume Technology I**

3 credit(s), max credits 15, 5 repeats allowed; prereq 3515 or grad or instr consent;

**Instructor:** Brighthouse, 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.

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**TH 5580 Costume Technology II**

3 credit(s), max credits 15, 5 repeats allowed; prereq 3515 or
grad or instr consent 
Instructor: Gramann ll,Dwane J 
Description: Student may contact the instructor or department for information.

TH 5711 Advanced Stage Direction 
3 credit(s); prereq [4711, instr. consent] or grad student; 
Instructor: Bellamy,Louis Richard 
Description: Student may contact the instructor or department for information.

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: Montgomery,Jean A 
Description: The course is a practical extension of TH 5716. You would participate as part of the stage management team on a production during this year's University Theatre season or, in rare cases, on a special project arranged with the instructor. 
Style: Practical lab 
Grading: 100% special projects.

TH 5950 Topics in Theatre: Tim Miller: Performance and Social Change 
3 credit(s), max credits 20, 20 repeats allowed; 
Instructor: Seifert,Luverne G 
Description: My goal is to share a variety of strategies to create original performances from the tremendous energies and stories that are present in our lives. Using our own memories and myths as a jumping off point, we will see where a deep sense of personal history creates performance that jumps out from our bodies onto the stage or the page. We will work for the two weeks and craft this into an original ensemble performance that we will present Saturday 5/10. Please bring your hearts and brains, hopes and fears. TIM MILLER is an internationally acclaimed solo performer. Hailed for its humor and passion, Miller's solo theater works have been presented all over North America, Australia, and Europe at such prestigious venues as Yale Repertory Theatre, the Institute of Contemporary Art (London), the Walker Art Center (Minneapolis), and the Brooklyn Academy of Music. He is the author of the book SHIRTS & SKIN and BODY BLOWS. Since 1990, Miller has taught performance in the theater department at UCLA. He is a founder of the two most influential performance spaces in the United States: Performance Space 122 on Manhattan's Lower East Side and Highways Performance Space in Santa Monica, CA. He can be reached at his website: http://hometown.aol.com/millertale/ 
"Tim Miller sings that song of the self which interrogates, with explosive, exploding, subversive joy and freedom, the constitution and borderlines of selfhood. You think you don't need to hear such singing? You do! You must!" -Tony Kushner, author of Angels in America 

TH 5950 Topics in Theatre: Ethnography of Performance 
3 credit(s), max credits 20, 20 repeats allowed; 
Instructor: Garcia,Cindy 
Description: 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 feminist, queer, and postcolonial 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. Authors studied include Anna Lowenhaupt Tsing, D. Soyini Madison, Kamala Visweswaran, Kirin Narayan, and Don Kulick. 

TH 5950 Topics in Theatre: Physical Actor's Studio: Advanced Improvisations 
3 credit(s), max credits 20, 20 repeats allowed; 
Instructor: Chanher,Lisa E 
Description: Advanced Improvisation is designed to help advanced performance students find the power of their own spontaneity, deepen their listening skills and heighten their understanding of what acting really is? being alive in the moment under real or imagined circumstances. Taught through in-class composition assignments, skill building drills, and meditation and actor movement training, we will pull from the Viewpoints method of Anne Bogart, comedy improvisation (long and short form), some clown and bouffon work and our own life experiences as we work on being truthful and present in the moment. Ultimately it is the power to overcome the internal censor and call upon our deep reserves of instinctual knowledge that mark the value of this work. This is a great class for those who want a break from ?prep and show? classes, as all work is done during class time. Leads to final performance of structured improvisation created by group. 

TH 8100 Theatre Practicum 
1-4 credit(s), max credits 20, 20 repeats allowed; prereq instr consent, dept consent; 
Instructor: Hansen,Kathleen Louise 
Description: Student may contact the instructor or department for information.

TH 8116 History and Theory of Western Theatre: 20th Century From 1945 to the Present 
3 credit(s); 
Instructor: Kobialka,Michal A 
Description: Student may contact the instructor or department for information.

TH 8500 Theatre Design Practicum 
1-3 credit(s), max credits 20, 20 repeats allowed; prereq instr consent, dept consent; 
Instructor: Gwinup, Martin Bruce 
Description: Student may contact the instructor or department for information.

TH 8950 Topics in Theatre 
1 credit(s), max credits 8; 
Instructor: Lelebreve,Mathew James 
Description: Student may contact the instructor or department for information.

TH 8994 Directed Research 
1-5 credit(s), max credits 16, 1 repeat allowed; prereq instr consent, dept consent; 
Instructor: Kobialka,Michal A 
Description: Student may contact the instructor or department for information.

Toxicology 
244 Veterinary Diagnostic Lab
**Translation and Interpreting**

**101 Wesbrook Hall**

**TRIN 3102 Consecutive Interpreting**
3 credit(s); prereq 3101, high level of proficiency in [spoken English, another language];

Instructor: McCalip, Silvia Elena

Description: A practical course aimed at developing basic levels of proficiency in interpreting in health, human service, and legal settings, with emphasis on interpreting professional/client dialogues. Students develop and refine techniques for consecutive interpreting and are introduced to basic techniques for simultaneous interpreting. Context-based interpreted texts allow students to integrate cultural, ethical, and situational knowledge. Performance assessment through audio- and videotaping with strong emphasis on accuracy.

**TRIN 4201 Interpreting in Health Care Settings**
A-F only, 3 credit(s); prereq 1201, 3102;

Instructor: Kayzar, Brenda

Description: Fieldwork and is writing intensive (3 cr.). Taught fall and spring.

**TRIN 4301 Interpreting in Legal Settings**
A-F only, 3 credit(s); prereq 1301, 3102;

Instructor: Gonzalez, M Graciela E

Description: A practical course aimed at developing basic levels of proficiency in interpreting in health, human service, and legal settings, with emphasis on interpreting professional/client dialogues. Students develop and refine techniques for consecutive interpreting and are introduced to basic techniques for simultaneous interpreting. Context-based interpreted texts allow students to integrate cultural, ethical, and situational knowledge. Performance assessment through audio- and videotaping with strong emphasis on accuracy.

**TRIN 5993 Directed Study**
1-3 credit(s), max credits 3;

Instructor: McCalip, Silvia Elena

Description: A practical course aimed at developing basic levels of proficiency in interpreting in health, human service, and legal settings, with emphasis on interpreting professional/client dialogues. Students develop and refine techniques for consecutive interpreting and are introduced to basic techniques for simultaneous interpreting. Context-based interpreted texts allow students to integrate cultural, ethical, and situational knowledge. Performance assessment through audio- and videotaping with strong emphasis on accuracy.

**TRIN 5993 Directed Study**
1-3 credit(s), max credits 3;

Instructor: Downing, Bruce T

Description: A practical course aimed at developing basic levels of proficiency in interpreting in health, human service, and legal settings, with emphasis on interpreting professional/client dialogues. Students develop and refine techniques for consecutive interpreting and are introduced to basic techniques for simultaneous interpreting. Context-based interpreted texts allow students to integrate cultural, ethical, and situational knowledge. Performance assessment through audio- and videotaping with strong emphasis on accuracy.

**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: A practical course aimed at developing basic levels of proficiency in interpreting in health, human service, and legal settings, with emphasis on interpreting professional/client dialogues. Students develop and refine techniques for consecutive interpreting and are introduced to basic techniques for simultaneous interpreting. Context-based interpreted texts allow students to integrate cultural, ethical, and situational knowledge. Performance assessment through audio- and videotaping with strong emphasis on accuracy.

**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: A practical course aimed at developing basic levels of proficiency in interpreting in health, human service, and legal settings, with emphasis on interpreting professional/client dialogues. Students develop and refine techniques for consecutive interpreting and are introduced to basic techniques for simultaneous interpreting. Context-based interpreted texts allow students to integrate cultural, ethical, and situational knowledge. Performance assessment through audio- and videotaping with strong emphasis on accuracy.

**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. Texts will be available at the Coffman Bookstore.

**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: 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: Kayzar, Brenda

Description: Drawing from multiple disciplines, this course examines the complexities of urban and metropolitan environments. A breadth of topics is covered amid changing social, political and economic contexts including governance, technology, planning and design concepts, investment and uneven development, citizen activism and cultural representations in art and film. International comparisons provide additional insight about U.S. cities. The course requires fieldwork and is writing intensive (3 cr.). Taught fall and spring.

Style: 60% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities, 5% Guest Speakers. Per Semester: Approximately 4-5 hours of fieldwork. Approximately 4-5 hours of
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: Kayzar,Brenda
Description: Drawing from multiple disciplines, this course examines the complexities of urban and metropolitan environments. A breadth of topics is covered amid changing social, political and economic contexts including governance, technology, planning and design concepts, investment and uneven development, citizen activism and cultural representations in art and film. International comparisons provide additional insight about U. S. cities. The course requires fieldwork and is writing intensive (3 cr.). Taught fall and spring.
Style: 60% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities, 10% Field Trips, 5% Guest Speakers.
Grading: 30% final exam, 35% reports/papers, 25% reflection paper, 10% other evaluation. Other Evaluation: In class discussion/small group activities

URBS 3202 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 repeats allowed; 
Instructor: Trow,Tom
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: Stanley,Jonathan Alan
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: Roscoe,Robert James
Description: Student may contact the instructor or department for information.

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: Loetterle,Francis E
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.
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: Student may contact the instructor or department for information.

Urdu
453 Folwell Hall

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 5990 Directed Research
1-5 credit(s), max credits 10; prereq instr consent , dept consent , college consent ;
Instructor: Sawhney,Simona
Description: Student may contact the instructor or department for information.

URDU 5990 Directed Research
1-5 credit(s), max credits 10; prereq instr consent , dept consent , college consent ;
Instructor: Sahota,Bali S.
Description: Student may contact the instructor or department for information.

URDU 5993 Directed Readings
1-5 credit(s), max credits 10; prereq instr consent , dept consent , college consent ;
Instructor: Sawhney,Simona
Description: Student may contact the instructor or department for information.

URDU 5993 Directed Readings
1-5 credit(s), max credits 10; prereq instr consent , dept consent , college consent ;
Instructor: Sahota,Bali S.
Description: Student may contact the instructor or department for information.
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 9/15/2008 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 2008

VMED 5241 Advanced Small Animal Pathobiology II
A-F only, 1 credit(s); prerequisite: VMed grad student, [DVM or foreign equiv] degree;
Instructor: Patterson DVM, Ned
Description: Student may contact the instructor or department for information.

VMED 5243 Advanced Small Animal Pathobiology IV
A-F only, 1 credit(s); prerequisite: VMed grad student, [DVM or foreign equiv] degree;
Instructor: Patterson DVM, Ned
Description: Student may contact the instructor or department for information.

VMED 5293 Directed Studies in Comparative Medicine and Pathology
A-F only, 1-4 credit(s), max credits 8; prerequisite: 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; prerequisite: 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; prerequisite: Grad student in CVM;
Instructor: Sharkey, Leslie Carol
Description: Student may contact the instructor or department for information.

VMED 5330 Veterinary Descriptive Histopathology
1 credit(s), max credits 2; prerequisite: 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; prerequisite: [DVM/VMD or equiv degree] from a foreign institution, instr consent, or resident or grad student in veterinary anatomic or clinical pathology;
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); prerequisite: 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 5493 Directed Studies in Infectious Disease
A-F only, 1-4 credit(s), max credits 8; prerequisite: 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); prerequisite: 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); prerequisite: VMed grad student, [DVM or equiv foreign degree] or instr consent;
Instructor: Malone, Erin
Description: Student may contact the instructor or department for information.

Grading: 50% reports/papers, 50% attendance.

VMED 5080 Problems in Veterinary Epidemiology and Public Health
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
Instructor: Bender, 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; prerequisite: 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; prerequisite: 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; prerequisite: 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; prerequisite: 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); prerequisite: CVM grad student, [DVM or foreign equiv] degree;
Instructor: Patterson DVM, Ned
Description: Grading: 50% reports/papers, 50% attendance.

VMED 5241 Advanced Small Animal Pathobiology II
A-F only, 1 credit(s); prerequisite: CVM grad student, [DVM or foreign equiv] degree;
Instructor: Lashbaugh, Kristy Diane
Description: Student may contact the instructor or department for information.

VBS 2032 General Microbiology with Laboratory
4 credit(s); prerequisite: [CHEM 1011, one semester college biology] or instr consent. Credit will not be granted if credit has been received for: MICB 3301;
Instructor: Maheswaran, Samuel K
Description: Student may contact the instructor or department for information.

VCS 4606 Small Animal Management
A-F only, 3 credit(s);
Instructor: Crews, Laura Jean Elizabeth
Description: Student may contact the instructor or department for information.

Veterinary Clinical Sciences
C-339 Veterinary Teaching Hospital

VCS 4606 Small Animal Management
A-F only, 3 credit(s);
Instructor: Crews, Laura Jean Elizabeth
Description: Student may contact the instructor or department for information.

Veterinary Medicine, Graduate
455 Veterinary Teaching Hospital

Instructor: Deen, John
prerequisite: instr consent; 5210 recommended;
A-F only, 1-3 credit(s), max credits 3, 1 repeat allowed;
Health
Description: Student may contact the instructor or department for information.

Instructor: Matise, Ilze
for: MICB 3301; majors; Credit will not be granted if credit has been received
biology] or instr consent, primarily for non-microbiology
Instructor: Matise, Ilze
Student may contact the instructor or department
Description: Student may contact the instructor or department for information.

Instructor: Dee, Scott Allen
foreign equiv; A-F only, 1-4 credit(s), max credits 8; prerequisite: Grad student, instr consent;
A-F only, 1-4 credit(s), max credits 8; prerequisite: Grad student, instr consent;
Veterinary Medicine grad student;
Instructor: Deen, John
Description: Student may contact the instructor or department for information.

Instructor: Dee, Scott Allen
Degree; A-F only, 3 credit(s), max credits 2; prerequisite: Grad student in CVM;
Instructor: Sharkey, Leslie Carol
Description: Student may contact the instructor or department for information.

Instructor: Matise, Ilze
Description: Student may contact the instructor or department for information.

Instructor: Malone, Erin
Description: Student may contact the instructor or department for information.

Instructor: Bender, Jeff Blaine
Description: Student may contact the instructor or department for information.

Instructor: Shores, Larry
Description: Student may contact the instructor or department for information.

Instructor: Goyal, Sagar M
Description: Student may contact the instructor or department for information.

Instructor: Malone, Erin
Description: Student may contact the instructor or department for information.

Instructor: Dee, Scott Allen
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Instructor: O’Brien, Timothy David
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Description: Student may contact the instructor or department for information.

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMED 5910</td>
<td>Grant Writing: What Makes a Winning Proposal?</td>
<td>S-N</td>
<td>Osborne, Carl A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8195</td>
<td>Pre-Harvest Food Safety and Public Health Aspects of Food Animal Production</td>
<td>1-3</td>
<td>Rutherford, Mark Stephen</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8201</td>
<td>Advanced Small Animal Veterinary Medicine A-F only, 1-5</td>
<td>1-5</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8202</td>
<td>Internal Medicine in Small Companion Animals A-F only, 1</td>
<td>1-3</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8203</td>
<td>Advanced Diagnosis and Therapeutics of Animal Disease</td>
<td>1-2</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8210</td>
<td>Seminar: Veterinary Medicine</td>
<td>1</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8220</td>
<td>Advanced Nephrology/Urology Clinics</td>
<td>3</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8230</td>
<td>Medical Conference</td>
<td>3</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8292</td>
<td>Journal Club: Large Animal Internal Medicine A-F only, 1</td>
<td>3</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8293</td>
<td>Advanced Studies in Nephrology and Urology A-F only, 1-3</td>
<td>1-3</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8294</td>
<td>Research Studies in Nephrology and Urology 1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent;</td>
<td>1-3</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8393</td>
<td>Medical Conference</td>
<td>A-F</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8394</td>
<td>Research in Veterinary Medicine</td>
<td>1-3</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8396</td>
<td>Diagnostic and Therapeutic Techniques of Animal Diseases</td>
<td>1-3</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8492</td>
<td>Seminar: Infectious Diseases and Swine Medicine</td>
<td>1-2</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8530</td>
<td>Advanced Swine Diseases</td>
<td>2</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8592</td>
<td>Infectious Disease Journals: Critical Thinking</td>
<td>1</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8593</td>
<td>Advanced Veterinary Virology and Serology</td>
<td>1-3</td>
<td>Osborne, Carl A</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8682</td>
<td>Advanced Large Animal Surgery</td>
<td>1-6</td>
<td>Malone, Erin</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8688</td>
<td>New Techniques in Large Animal Surgery</td>
<td>1-6</td>
<td>Malone, Erin</td>
<td>Description: Student may contact the instructor or department for information.</td>
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<tr>
<td>VMED 8691</td>
<td>Research in Large Animal Surgery</td>
<td>1-6</td>
<td>Malone, Erin</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>VMED 8692</td>
<td>Seminar: Small Animal Surgery</td>
<td></td>
<td>Malone, Erin</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>
A-F only, 1 credit(s);
Instructor: Wallace, Larry J
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 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 Anesthesiology
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.

VIET 1016 Accelerated Intermediate Vietnamese
5 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.

Warsaw Executive MBA

WMBA 5672 Action-oriented Strategy Mapping (or What to Do When Thinking Matters)
A-F only, 1.5 credit(s);
Instructor: Bryson, John M
Description: Student may contact the instructor or department for information.

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: Twin Cities Mississippi River Corridor
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 8442;
Instructor: Novak, Paige J
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.

Work and Human Resource Education
210 VoTech Building

WHRE 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, Joan Audray  
Description: Student may contact the instructor or department for information.

WHRE 3011W Introduction to Technology and Public Ethics  
3 credit(s); Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Writing Intensive;  
Instructor: Franske, Ben J  
Description: Student may contact the instructor or department for information.

WHRE 3121 Communication, Energy and Power, Transportation and Machinery Technologies  
A-F only, 3 credit(s);  
Instructor: Boone, Michael Dennis  
Description: Student may contact the instructor or department for information.

WHRE 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.

WHRE 5011W Technology and Public Ethics  
A-F only, 3 credit(s); Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Writing Intensive;  
Instructor: Davis, Joan Audray  
Description: Student may contact the instructor or department for information.

WHRE 5011W Technology and Public Ethics  
A-F only, 3 credit(s); Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Writing Intensive;  
Instructor: Franske, Ben J  
Description: Student may contact the instructor or department for information.

WHRE 5121 Principles of Supervisory Management  
3 credit(s);  
Instructor: Schultz, Jennifer Lynn  
Description: Student may contact the instructor or department for information.

WHRE 5201 Family and Work Relationships  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 5908;  
Instructor: Magistad, Beth Maddock  
Description: Student may contact the instructor or department for information.

WHRE 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.

WHRE 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.

WHRE 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.

WHRE 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.
seminars, scholarly dialogue, and written assignments. The instructor’s main role is to facilitate learning, lead discussions, and share knowledge and resources.

**WRHE 8142 Comparative Systems in Work and Human Resource Education**
- **3 credit(s); prereq 8141;**
- **Instructor:** Lewis, Theodore
- **Description:** Student may contact the instructor or department for information.

**WRHE 8143 Contemporary Workforce and Workplace Issues**
- **A-F only, 3 credit(s);**
- **Instructor:** Park, Rosemarie J
- **Description:** Student may contact the instructor or department for information.

**WRHE 8912 Quantitative Research In Work and Human Resource Education**
- **3 credit(s); prereq 8911;**
- **Instructor:** Lewis, Theodore
- **Description:** Student may contact the instructor or department for information.

**WRHE 8990 Research Seminar**
- **S-N only, 1 credit(s), max credits 6, 6 repeats allowed; prereq 8911, [8912 or 8913 or 8914] or dept consent;**
- **Instructor:** Brown, PhD James M
- **Description:** Student may contact the instructor or department for information.

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**Writing Studies**

**180 Wesbrook Hall**

**WRIT 1152W Writing on Issues of Science and Technology**
- **A-F only, 4 credit(s); prereq exemption from 1101 or equiv; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;**
- **Instructor:** Nichols, Capper
- **Description:**

**WRIT 1152W Writing on Issues of Science and Technology**
- **A-F only, 4 credit(s); prereq exemption from 1101 or equiv; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;**
- **Instructor:** Monani, Salma Basanti
- **Description:** Spell Check Course Guide Description (3,000 character limit) (Alt=5) Ethical, social, and political challenges created by science/technology in the context of environmental issues. In this section we will examine climate change as a case study, and analyze persuasion strategies through which experts, political decision-makers, and citizens meet the challenges associated with this issue on the local and global level.

**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 worried over in American literature—in novels, short stories, memoirs, young adult fiction, and in film and television. Class time will be devoted mostly to discussions of the readings. Outside of class, you will be expected to do all the reading and post regularly to the course weblog. Assignments include a brief definitions essay, two take-home essay exams, and a family history essay. Texts may include Bastard Out of Carolina—Dorothy Allison; Beloved—Toni Morrison; String Too Short to be Saved—Donald Hall; Dangerous Angels—Francesca Lia Block; The Kid—Dan Savage; The Grapes of Wrath—John Ford, director; Say Anything—Cameron Crowe, director; and selected television situation 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:** Russell, Chris
- **Description:**

**WRIT 1381W Rhetorical Fictions and 20th Century Conflicts: West Africa, Vietnam, and the Middle East**
- **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:** 50% Lecture, 5% Film/Video, 60% Discussion.
- **Grading:** 50% reports/papers, 25% quizzes, 25% class participation.

**WRIT 3108 Gender and Ethnicity and the Rhetoric of Science and Technology**
- **3 credit(s); prereq 1101; Meets CLE req of Cultural Diversity Theme;**
- **Instructor:** Thomas-Pollei, Kimberly A.
- **Description:** How cultural gender roles are affected by science/technology. Influence of gender roles on scientific/technological thinking (e.g., communication strategies, language, image). Values/goals of past/present scientific/technological communities. Our discussions and the texts for this course, which include historical studies, biography, journalism, fiction, film, and documentary, focus on the following topics: reproductive technologies, the science of gender & sexuality, eugenics, the science of race, as well as the problematic nature/nurture debate.
- **Style:** 40% Lecture, 10% Film/Video, 40% Discussion, 5% Small Group Activities, 5% Student Presentation.

**WRIT 3211W Communication Modes and Methods**
- **4 credit(s); prereq 1101 or 1152 or EngC 1011 or equiv Credit will not be granted if the student has already completed Rhet 3221W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;**
- **Instructor:** Berkenkotter, Carol Ann
- **Description:** Student may contact the instructor or department for information.

**WRIT 3257 Scientific and Technical Presentations**
- **3 credit(s); prereq COMM 1101 or instr consent;**
- **Instructor:** Coggio, Grace Leinbach
- **Description:**

**WRIT 3291 Independent Study**
- **1-3 credit(s), max credits 3, 1 repeat allowed; prereq instr consent, dept consent;**
- **Instructor:** Volpe, Angelo V
- **Description:**

**WRIT 3302 Science, Religion, and the Search for Human Nature**
- **3 credit(s); Meets CLE req of Other Humanities Core;**
- **Instructor:** Philippon, Daniel J
- **Description:** Is religion opposed to science? Was the universe created? Does evolution rule out God's existence? Should scientists stop "playing God"? Can religions help build a sustainable world? These are some of the many questions we
will ask in this course, which explores the complex relationship that science and religion have had in Western culture. Together we will examine several prominent historical and contemporary methods and themes of science, as well as their implications for the concepts of God and human nature. We will discuss such subjects as language and metaphor, miracles and falsification, creation and evolution, genetic engineering and human dignity, and cosmology and environmental ethics, and our readings will include provocative new work by such thinkers as Francis Collins, Lee Smolin, and Gary Gardner. We will also listen to some popular music about these issues, see a wide range of video clips, and watch a full-length feature film. This course fulfills the liberal education requirements for ?Other Humanities Core.? Style: 50% Lecture, 50% Discussion. Grading: 30% reports/papers, 40% quizzes, 10% attendance, 20% reflection paper.

**WRIT 3361 Literature of Social Movements in the United States: 1950 to 2000**

A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLEreq 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 rhetorical 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?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.

**WRIT 3371 Technology, Self, and Society**

3 credit(s); prerequisite [1101 or 1152W or ENGC 1011 or equiv]; Instructor: Anheier,Paul Marcos

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

**WRIT 3401 Internet Communication: Tools and Issues**

3 credit(s); prerequisite Internet access including e-mail, [Netscape 3.0 or higher or equiv]; Instructor: Anheier,Paul Marcos

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

**WRIT 3672 Project Design and Development**

A-F only, 3 credit(s); prerequisite [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); prerequisite [1101 or 1152W or ENGC 1011 or equiv] Credit will not be granted if the student has already completed Rhet 3701W; Meets CLE req of Writing Intensive; Instructor: Walser,Arthur Eugene

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

**WRIT 4341 Intersections of Scientific and Technical Communication and Law**

A-F only, 3 credit(s); prerequisite [3562W, [jr or sr or grad student]] or instr consent; Instructor: Schuster,Mary Lay

**Description:** This course introduces students to the areas of the law that are relevant to scientific and technical communication, although students from all majors are welcome. These areas of the law include intellectual property, privacy, and health law. Students will read opinions and decisions in landmark and current cases to see what values, precedents, and issues arise. The course is designed to address the needs of students who seek employment in industry and government where knowledge of legal issues is important and students who wish to go on to law school. Students will be able to pursue as project of their choice.

**Style:** 100% Discussion.

**WRIT 4501 Usability and Human Factors in Technical Communication**

3 credit(s); prerequisite 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); prerequisite [3562, [STC major or grad student]] or instr consent; Instructor: Horvath,Barbara Ann

**Description:**

**WRIT 4662W Emerging Technologies in Scientific and Technical Communication**

A-F only, 4 credit(s); prerequisite 3562 or equiv; Meets CLE req of Writing Intensive; 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,Kimberley 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 cultural 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; Instructor: Longo,Bernadette
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 5671 Visual Rhetoric
A-F only, 3 credit(s); prereq Jr or sr or grad student; Instructor: Logie,John
Description: Student may contact the instructor or department for information.

WRIT 5776 Major Figures in Rhetorical Tradition: Modern Era
A-F only, 3 credit(s); Instructor: Logie,John
Description: Student may contact the instructor or department for information.

WRIT 8510 Topics in Rhetorical Theory, History, and Criticism: Narrative Theory
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prereq 5775 or equiv; Instructor: Berkenkotter,Carol Ann
Description: Student may contact the instructor or department for information.

WRIT 8510 Topics in Rhetorical Theory, History, and Criticism: Pragmatism Today
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; prereq 5775 or equiv; Instructor: Russell,Chris
Description: Pragmatism proposes to transform many fields of scholarly and everyday concern. Communication, politics, religion, education, aesthetics, literary theory, rhetoric, philosophy, and law have all witnessed revivals of pragmatist thought. No longer ?a new name for some old ways of thinking,? as William James put it a century ago, scholars now promise new pragmatisms for new times. Neo-pragmatism, new wave pragmatism, prophetic pragmatism, historical pragmatism, media pragmatism, feminist pragmatism, environmental pragmatism, and genealogical pragmatism are just a few of the projects on offer today. But what is pragmatism? This course focuses on several of the key figures and founding texts in pragmatism – both classical and contemporary? and emphasis is placed on questions regarding its value and viability today. We will engage the pragmatism of William James, John Dewey, and Richard Rorty, in particular, and ask how pragmatism re-envisions notions of experience, culture, language, communication, politics, knowledge, affect, the self, race, and the relationship between publicity and privacy. We will also investigate the extent to which pragmatism anticipates, inform or challenges contemporary post-structuralist perspectives on these issues. Rorty once claimed that James and Dewey were ?wasting at the end of the road? traveled by prominent poststructuralists. We will discuss if Rorty was right and ask why it might matter. Our engagement with more contemporary writers will be guided by student interest, but will likely include Michel Foucault, Gilles Deleuze, Bruno Latour, John Durham Peters, James Carey, Shannon Sullivan, Nancy Fraser, William Connolly, Cornell West, and Ron Greene, among others. I very much welcome your suggestions here. Though the seminar will emphasize many of the popular trends in pragmatism, we will also strive to register its quirkier aspects and to include less well-known figures in the conversation. Seminar participants will be encouraged to develop bibliographies and outlines for research papers investigating the value of pragmatist perspectives to their respective research traditions or problems.

WRIT 8550 Topics in Technology and Culture: Theory and Research in Internet Studies
A-F only, 3 credit(s), max credits 12, 4 repeats allowed; Instructor: Gurak PhD,Laura J
Description: This course provides an overview of theory and research about communication in online settings. Online communication blurs the boundaries between oral and written discourse and raises questions about traditional approaches to communication research. In addition, online interactions offer important sites to study literacy, identity, gender, race, and community. We will examine online communication via email, Web pages, Usenet newsgroups, lists, chat, blogs, wikis, and other forms of Internet-based communication. This course will prepare students in the rhetoric and scientific and technical communication (RSTC) doctoral program to take their examinations in this area, but students from other graduate programs across the University have found this course useful as an outside class and are most
welcome. Indeed, the mix of students from humanistic, social science, physical science, and engineering backgrounds normally makes this course a rich, interdisciplinary experience, rather like the experience of using the Internet, where people and ideas from across the disciplines mix and meet.

**YOST 2101 Urban Youth and Youth Issues**
- **Instructor:** Tabourne, Ph.D. Carla E.S.
- **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 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 they do 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, yet while youth are such often an issue to adults. We use the word issue in the course title to open up this rubric 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:**
- 15% Lecture
- 60% Discussion
- 20% movies, guest presenters
- Field observation, small groups, pairs

**Grading:**
- 50% reports/papers, 30% class participation, 20% other evaluation
- Final project (effort) and presentation

**WRIT 8794 Directed Research**
- **S-N only, 1-4 credit(s), max credits 12, 12 repeats allowed**
- **Instructor:** Longo, Bernadette
- **Description:** Student may contact the instructor or department for information.
models are explored. Educational theories and theories of adolescent development are integrated into course content and process. Information is presented through active participation, discussion, videotapes, guest artists, and workshops with high school students participating with adult university students. No experience in theatre is necessary.

**Style:** 20% Discussion, 30% Small Group Activities, 10% Student Presentation, 30% Demonstration, 10% Field Trips.

**Grading:** 40% special projects, 20% written homework, 40% class participation.

**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:** The purpose of this course is to explore at a beginning level the topic of adolescent spirituality and its importance to youthwork practice. Typically, the spiritual experiences of young people have been the province of religious instruction or faith-based youthwork. Recently it has become increasingly clear that all those working with young people must have a beginning awareness of the place of the spiritual in young people's everyday lives, whether or not the worker is employed by, or volunteers at a faith based group or organization. Faith and spirituality are increasingly accepted as actual and necessary aspects of healthy youth development and a "fully flourishing young person?. The range and extent of current research on adolescent spirituality is remarkable, for a field that was virtually ignored ten years ago. The sudden popularity of the conversation across disciplines in the academy raises critical issues for practitioners. How will the research findings confirm or challenge their experience? How will new research impact everyday practice? The recent acceptance of the validity and necessity of focusing on the spiritual in young people and in youthwork has been confirmed by the public response to the tragic shootings at Columbine and Red Lake high schools, 9/11?, the eruption of civil, state, and sectarian violence in the Middle East, evidence of ethnic cleansing in sub-Saharan Africa, and the front page news in the United States about child abuse by clergy. To meet culturally diverse American young people where they are, many youth workers today recognize the urgent need for a working understanding of the complex terrain that is spirituality in an increasingly religiously pluralistic and politically charged world. This course enters the spaces of social, political, cultural, and religious institutions and practices, illuminating issues, topics, problems, and concerns to those who work with youth directly and or on their behalf. Unique will be the angle of vision and the glasses used to explore these issues and to suggest ways of response: the healthy spiritual development of young people in their everyday lives, and the types of youthwork practices most respectful of, and best able to facilitate this. Understanding the complex terrain that is spirituality in an increasingly pluralistic world, and the distinctions between religion, religiosity, faith, morality, and spirituality.

**Style:** 5% Lecture, 60% Discussion. Video, site visits, student presentations, guest speakers

**Grading:** 65% reports/papers, 15% special projects, 20% class participation.

**YOST 5401 Young People's Spirituality and Youthwork: an Introduction**

A-F only, 4 credit(s); prereq [2001, one course each in [Anth, Soc, CPsy]] or instr consent ; Credit will not be granted if credit has been received for: YOST 4401W;

**Instructor:** Kimball, Lisa

**Description:** Exploration of spirituality and its relationship to youth work; the healthy spiritual development of young people in their everyday lives, and the types of youth work practices most respectful of and best able to facilitate this. Understanding the complex terrain that is spirituality in an increasingly pluralistic world, and the distinctions between religion, religiosity, faith, morality, and spirituality.

**Style:** 5% Lecture, 60% Discussion. Video, site visits, student presentations, guest speakers

**Grading:** 65% reports/papers, 15% special projects, 20% class participation.

**YOST 5402 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 4402;

**Instructor:** Stein, Jerome A

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