AHS 1101 Orientation to Health Careers
OPT No Aud, 1 credit(s); Credit will not be granted if credit has been received for: AHS 1102;
Instructor: Grossman MPH, Elizabeth Susan
Description: This one credit course is designed for students interested in exploring the many career paths available in health care. Students will have the opportunity to reflect on their own values, skills and interests. You will also hear first-hand from an extensive line-up of guest speakers and learn more about the academic and experiential requirements for health professional schools at the University. Activities will include interest inventories, discussion, journaling, developing an action plan, and other reflective assignments. This course will help you decide if a career in the health professions is a good fit for you.
Grading: 33% quizzes, 33% reflection paper, 33% other evaluation.
Style: 100% Web Based.

AHS 1101 Orientation to Health Careers
OPT No Aud, 1 credit(s); Credit will not be granted if credit has been received for: AHS 1102;
Instructor: Kachgal PhD, 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.
Grading: 33% quizzes, 33% reflection paper, 33% other evaluation.
Exam Format: multiple choice, matching, true/false, and short answer.

AHS 1102 Orientation to Health Careers
OPT No Aud, 1 credit(s); Credit will not be granted if credit has been received for: AHS 1101;
Instructor: 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.
Grading: 33% quizzes, 33% reflection paper, 33% other evaluation.
Style: 100% Web Based.

AHS 1102 Orientation to Health Careers
OPT No Aud, 1 credit(s); Credit will not be granted if credit has been received for: AHS 1101;
Instructor: Grossman MPH, Elizabeth Susan
Description: This one credit course is designed for students interested in exploring the many career paths available in health care. Students will have the opportunity to reflect on their own values, skills and interests. You will also hear first-hand from an extensive line-up of guest speakers and learn more about the academic and experiential requirements for health professional schools at the University. Activities will include interest inventories, discussion, journaling, developing an action plan, and other reflective assignments. This course will help you decide if a career in the health professions is a good fit for you.
Grading: 33% quizzes, 33% reflection paper, 33% other evaluation.

ACCT 2050 Introduction to Financial Reporting
A-F only, 4 credit(s); pre req APEX 1244 or APEX 1251; or pre req APEX 1244 or APEX 1251; or pre req APEX 1244 or APEX 1251;
Instructor: Biondich, Nick E
Description: This course offers a special emphasis on the accounting cycle and the financial statements. It covers the preparation of financial statements and their analysis and interpretation. It also covers the concepts and principles of financial reporting, including the use of financial statements in decision making. The course is designed for students who are interested in business and finance, and it provides a foundation for further study in accounting and finance.
Grading: homework, 10% journal, 20% reflection paper.

Accounting
3-122 Carlson Mgmt

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
**Schedule.**

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Instructor</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Grading</th>
<th>Style</th>
<th>Exam Format</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 3199</td>
<td>Internship in Public Accounting</td>
<td>Biondich, Nick E</td>
<td>Students interested in earning academic credit for work involving an accounting internship should contact Nick Biondich at 612-624-7055.</td>
<td>S-N only, 2 credit(s); prerequisite 5125, instructor consent</td>
<td>33% final exam, 27% written homework, 20% in-class presentation, 20% class participation</td>
<td>100% Web Based.</td>
<td>--The 2 exams are supervised, in-person (not online)</td>
<td></td>
</tr>
<tr>
<td>ACCT 3201</td>
<td>Intermediate Management Accounting</td>
<td>White, Paul Andrew</td>
<td>This course continues the topic of management accounting in greater depth. The purpose of management accounting is to provide information to management for costing products, as well as for planning, controlling, and evaluating business activities. The purpose of this class is to expand and build on the topics introduced in ACCT 3001. The course will hone and refine the tools and techniques learned in introductory management accounting classes as well as improve your decision-making skills. We will also explore several topics not covered in the introductory class as well as consider how management accounting supports overall business strategy.</td>
<td>A-F only, 2 credit(s); prerequisite 3001, act or finance major;</td>
<td>47% mid-exam, 25% final exam, 19% reports/papers, 10% other evaluation</td>
<td>100% Lecture.</td>
<td>Open-ended questions 85%; essays 10-15%; 9% other evaluation.</td>
<td></td>
</tr>
<tr>
<td>ACCT 3299</td>
<td>Internship in Management Accounting</td>
<td>Biondich, Nick E</td>
<td>Students interested in earning academic credit for work involving an accounting internship should contact Nick Biondich at 612-624-7055.</td>
<td>S-N only, 2 credit(s); prerequisite Acct 3201, instructor consent;</td>
<td></td>
<td>100% Web Based.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 5101</td>
<td>Intermediate Accounting I</td>
<td>Tranter, Terry L</td>
<td>The class will primarily utilize lectures and student questions to cover the material. Grades will be based on total points earned on three midterms (100 points each), two written assignments which will be graded for writing style, punctuation, and grammar as well as content (40 points each), and a final (180 points). Exams are almost exclusively problem oriented and require free-hand computations (no multiple choice or true/false). Students will be expected to do substantial problem assignments outside class which are not formally graded, but are necessary to master the material. Students should expect to spend 8-12 hours outside of class each week.</td>
<td>A-F only, 4 credit(s); prerequisite Grade of at least B- in 2050, mgmt major or mgmt grad student;</td>
<td>47% mid-exam, 25% final exam, 19% reports/papers, 9% other evaluation.</td>
<td>100% Lecture.</td>
<td>Open-ended questions 85%; essays 10-15%; 4-6 questions per exam; exams are long and run the full class period</td>
<td></td>
</tr>
<tr>
<td>ACCT 5102</td>
<td>Intermediate Accounting II</td>
<td>Tranter, Terry L</td>
<td>The class will primarily utilize lectures and student questions to cover the material. Grades will be based on total points earned on three midterms (100 points each), two written assignments which will be graded for writing style, punctuation, and grammar as well as content (40 points each), and a final (180 points). Exams are almost exclusively problem oriented and require free-hand computations (no multiple choice or true/false). Students will be expected to do substantial problem assignments outside class which are not formally graded, but are necessary to master the material. Students should expect to spend 8-12 hours outside of class each week.</td>
<td>A-F only, 4 credit(s); prerequisite Grade of at least B- in 2050, mgmt major or mgmt grad student;</td>
<td>47% mid-exam, 25% final exam, 19% reports/papers, 9% other evaluation.</td>
<td>100% Lecture.</td>
<td>Open-ended questions 85%; essays 10-15%; 4-6 questions per exam; exams are long and run the full class period</td>
<td></td>
</tr>
<tr>
<td>ACCT 5102</td>
<td>Intermediate Accounting II</td>
<td>Tranter, Terry L</td>
<td>The class will primarily utilize lectures and student questions to cover the material. Grades will be based on total points earned on three midterms (100 points each), two written assignments which will be graded for writing style, punctuation, and grammar as well as content (40 points each), and a final (180 points). Exams are almost exclusively problem oriented and require free-hand computations (no multiple choice or true/false). Students will be expected to do substantial problem assignments outside class which are not formally graded, but are necessary to master the material. Students should expect to spend 8-12 hours outside of class each week.</td>
<td>A-F only, 4 credit(s); prerequisite Grade of at least B- in 2050, mgmt major or mgmt grad student;</td>
<td>47% mid-exam, 25% final exam, 19% reports/papers, 9% other evaluation.</td>
<td>100% Lecture.</td>
<td>Open-ended questions 85%; essays 10-15%; 4-6 questions per exam; exams are long and run the full class period</td>
<td></td>
</tr>
</tbody>
</table>
ACCT 5135 Fundamentals of Federal Income Tax
A-F only, 4 credit(s); prereq [3101 or 5101 or 5100 or 6100], [acct major 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: 60% 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: Bell,Frank J
Description: Student may contact the instructor or department for information.

ACCT 5160 Financial Statement Analysis
A-F only, 2 credit(s); prereq [5100/6100 or 3101/5101], [accounting or finance major];
Instructor: Issaevitch,Thomas
Description: This course will teach students how to use financial statements for a number of purposes but with an emphasis on equity valuation. We will begin with an introduction to equity valuation concepts. We will then use business and economic knowledge, cases, and statistical evidence to understand how financial statements can be used to estimate value, earnings quality, and management ability. (Note: there are no statistical or economic pre-requisites).
Style: 40% Lecture, 40% Discussion, 20% Small Group Activities.
Grading: 30% final exam, 20% reports/papers, 20% quizzes, 20% written homework, 10% class participation.

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;
Instructor: Guterman,Paul Gerard
Description: Also known as "Tax 2," this course is a continuation and building upon the fundamental tax principles learned in Acct 5135. Whereas the first tax course focused on individual taxation, this course is intended as a broad overview of entity taxation. Specifically it is a survey to the income tax laws governing the taxation of corporations, partnerships, limited liability companies, limited liability partnerships, and S corporations. The course will also build upon and increase the student's knowledge and skills relating to tax research by requiring the writing of two research memorandums.
Style: 60% Lecture, 15% Discussion. Problems
Grading: 40% mid exam, 40% final exam, 20% other evaluation.
Exam Format: multiple choice + short essay

ACCT 5237 Foreign National Tax Consulting
S-N only, 2 credit(s); prereq 5135, accounting major;
Instructor: Carter,Gary Wm
Description: The class meets only through 3/11/10. However, we rely on volunteers (students from the class) each Thursday evenings for the rest of the tax season (through April 8). Designed to provide actual tax return preparation and tax consulting experience, this course is part of an ongoing partnership between the University of Minnesota and the IRS through the VITA program to provide free tax help to foreign national students, researchers and visiting professors. You will learn the unique aspects of preparing tax returns for nonresident aliens, and will be trained to use high-end practitioner tax preparation software. The course will introduce you to practical aspects of the tax industry through actual tax return preparation and consulting. Specifically the course will: 1) acquaint you with the tax rules applicable to foreign nationals visiting the US on temporary visas; 2) provide training for the preparation of nonresident and dual-status tax returns using tax software; and 3) allow you to consult with and provide supervised tax return preparation services to foreign national taxpayers.

ACCT 5310 International Accounting
A-F only, 2 credit(s); prereq 5101; [5102 or Concurrent registration is required (or allowed) in 5102] recommended;
Instructor: Rayburn,Judy Ann
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: Gu,Zhaoyang
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: Bell,Frank J
Description: Student may contact the instructor or department for information.

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

ACCT 8831 Theory of Contracts I: Moral Hazard and Adverse Selection
2 credit(s);
Instructor: Gigler,Frank
Description: Student may contact the instructor or department for information.

Addiction Studies

Credit Certificate Prog/College of Continuing Edu

ADDS 4001 Professional Practice of Addictions Counseling
A-F only, 3 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.

ADDS 4002 Internship in Substance Abuse Counseling I
ADDS 5001 Foundations of Addiction Studies  
A-F only, 2 credit(s);  
Instructor: Van Cleve, Michael  
Description: Student may contact the instructor or department for information.

ADDS 5002 Models, Methods, and Intervention Skills for Substance Abuse Counselors  
A-F only, 2 credit(s);  
Instructor: Van Cleve, Michael  
Description: Knowing the difference between Rogers and Ellis? counseling models is important. Not so much because current practitioner's practice exclusively under one model but because it deepens the counselor's capacity to understand that theory guides thinking and decision making in the clinical environment. This course surveys the major concepts and practices of several therapeutic models including existential therapy, person centered therapy, behavior therapy, cognitive therapy and post modern models such as solution focused and narrative. The second section of the course will focus on the popular contemporary change model: motivational interviewing. Students will be exposed to several concepts such as ambivalence, confidence, motivation, resistance and commitment to change. Considerable in-class time will be dedicated to practicing MI interventions with peers. Students will finish the course fully prepared at an introductory level. Information will be provided on how students can continue their training. Instructional objectives are designed to help you: ? Understand the key concepts, the therapeutic process and the application of techniques and procedures for several different clinical models? Discuss strengths and limitations of those approaches? Understand the MI model of change including all of its primary concepts? Practice increasing proficiency on using model in a practice environment? Discuss strengths and limitations of MI model

ADDS 5004 Co-Occurring Addictive and Mental Health Disorders  
A-F only, 2 credit(s); prerequisite cannot be taken for cr by MSW students;  
Instructor: Van Cleve, Michael  
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The purpose of this course is to familiarize clinical practitioners with the relationship between mental disorders and substance abuse, the characteristics of the most common mental disorders, and the methods used to treat individuals who have co-occurring conditions. The course will describe how mental health disorders interact with substance abuse disorders, the medications that are used to treat these conditions, and the community resources that can be helpful for these clients. It will also discuss approaches to assessment and counseling, including the use of the DSM-IV-TR. The goal of this course is to improve your ability to work with this population by broadening your knowledge and skills in the areas of assessment, treatment planning, and evidence-based treatment interventions.  
Style: 100% Web Based.  
Grading: --self-introduction: 1% --5 discussions: 9% --12 quizzes: 30% --2 exams: 60%

ADDS 5010 Introduction to Culture and Social Dysfunction  
A-F only, 2 credit(s);  
Instructor: Van Cleve, Michael  
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The purpose of this course is to introduce students to the core concepts of culture and social dysfunction. The primary focus of the course will be on how cultural, social, and historical factors influence mental health and substance abuse disorders. The course will also cover key concepts such as cultural competence, cultural humility, and the impact of cultural factors on professional practice.  
Style: 100% Web Based.  
Grading: --self-introduction: 1% --5 discussions: 9% --12 quizzes: 30% --2 exams: 60%

ADDS 5011 Introduction to Co-Occurring Disorders  
A-F only, 2 credit(s);  
Instructor: Van Cleve, Michael  
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The purpose of this course is to introduce students to the core concepts of co-occurring disorders. The primary focus of the course will be on how mental health and substance abuse disorders co-occur and how to effectively treat these clients. The course will also cover key concepts such as dual diagnosis, co-occurrence, and the impact of co-occurring disorders on professional practice.  
Style: 100% Web Based.  
Grading: --self-introduction: 1% --5 discussions: 9% --12 quizzes: 30% --2 exams: 60%

ADDS 5012 Models and Approaches to Addictive and Mental Health Disorders  
A-F only, 2 credit(s);  
Instructor: Van Cleve, Michael  
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The purpose of this course is to introduce students to the core concepts of models and approaches to addictive and mental health disorders. The primary focus of the course will be on how different models and approaches are used to treat these clients. The course will also cover key concepts such as therapeutic models, evidence-based treatments, and the impact of different models and approaches on professional practice.  
Style: 100% Web Based.  
Grading: --self-introduction: 1% --5 discussions: 9% --12 quizzes: 30% --2 exams: 60%

ADDS 5014 Collaborative Practice for Co-Occurring Disorders  
A-F only, 2 credit(s);  
Instructor: Van Cleve, Michael  
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The purpose of this course is to introduce students to the core concepts of collaborative practice for co-occurring disorders. The primary focus of the course will be on how to effectively work with clients who have co-occurring disorders. The course will also cover key concepts such as interprofessional collaboration, communication, and the impact of different models and approaches on professional practice.  
Style: 100% Web Based.  
Grading: --self-introduction: 1% --5 discussions: 9% --12 quizzes: 30% --2 exams: 60%

ADDS 5015 Integrative Models and Approaches to Co-Occurring Disorders  
A-F only, 2 credit(s);  
Instructor: Van Cleve, Michael  
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The purpose of this course is to introduce students to the core concepts of integrative models and approaches to co-occurring disorders. The primary focus of the course will be on how to effectively integrate different models and approaches to treat these clients. The course will also cover key concepts such as integrative approaches, evidence-based treatments, and the impact of different models and approaches on professional practice.  
Style: 100% Web Based.  
Grading: --self-introduction: 1% --5 discussions: 9% --12 quizzes: 30% --2 exams: 60%

AEM 2011 Statics  
A-F only, 3 credit(s); prerequisite PHYS 1301W, [concurrent registration is required (or allowed) in Math 2374 or equiv], IT;  
Instructor: STAFF  

AEM 2012 Dynamics  
A-F only, 3 credit(s); prerequisite 2011, [concurrent enrollment in Math 2373 or equiv], IT student;
AEM 2301 Mechanics of Flight
A-F only, 3 credit(s); prereq PHYS 1301W, [Concurrent registration is required (or allowed) in MATH 2373 or equiv], IT;
Instructor: STAFF

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

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

AEM 4295 Problems in Fluid Mechanics
1-3 credit(s), max credits 6, 6 completions allowed; prereq dept consent;
Instructor: STAFF
Description: Topics of current interest. Individual projects with consent of faculty sponsor.

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

AEM 4305 Spacecraft Attitude Dynamics and Control
A-F only, 3 credit(s); prereq [4301, [4303W or ME 3281], IT upper div] or grad student;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

AEM 4371 Helicopter Aerodynamics
3 credit(s); prereq 2301, 4202, 4303, [IT upper div or grad student];
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

AEM 4894H Senior Honors Thesis
A-F only, 3 credit(s); prereq Honors student, permission of University Honors Program, AEM major;
Instructor: Shield, Thomas William
Description: Student may contact the instructor or department for information.

AEM 5245 Hypersonic Aerodynamics
A-F only, 3 credit(s); prereq 4202, [grad student or upper div IT];
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 5495 Topics in Aerospace Systems
A-F only, 1-4 credit(s), max credits 4, 4 completions allowed; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

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

AEM 8211 Theory of Turbulence I
3 credit(s); prereq 8202;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 8253 Computational Methods in Fluid Mechanics
A-F only, 3 credit(s); prereq 4201;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 8271 Experimental Methods in Fluid Mechanics
3 credit(s); prereq 4201, instr consent;
AEM 8400 Seminar: Aerospace Systems
S-N only, 1 credit(s), max credits 4, 4 completions allowed; 
prereq Aerops Eng grad student;  
Instructor: Balas,Gary John
Description: Student may contact the instructor or department for information.

AEM 8442 Navigation and Guidance Systems
A-F only, 3 credit(s); 
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

AEM 8531 Fracture Mechanics
A-F only, 3 credit(s); prereq 5503 or instr consent;  
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 8541 Mechanics of Crystalline Solids
3 credit(s); prereq 5501 or instr consent;  
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

AFRO 1902 Freshman Seminar: Your Television Will Be Colorized: Black TV Comics’ Riffs on Race
3 credit(s); prereq Fr; Meets CLE req of Cultural Diversity Theme;  
Instructor: Jacobs, Wait
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.

AFRO 3002 West African History: 1800 to Present
3 credit(s); Meets CLE req of Historical Perspective Core;  
meets CLE req of International Perspective Theme;  
Instructor: Colman, Victoria Bomba
Description: This course, which is deeply and firmly rooted in the African past, is also very current and relevant for Africa of today and tomorrow. It provides the historical information for understanding and evaluating the recent wars in Liberia and Sierra Leone and the current period of reconstruction in both countries. It helps too, in evaluating the current tensions in Ivory Coast. Students planning travel, course work, or internships in West Africa and students with African backgrounds, will find valuable and timely information about the places they know or will visit. This can contribute to providing the building blocks of development and future planning which meets people "where they are" and therefore increases the chances for success. This information can also help understanding and planning for other parts of the continent. Themes of this course include the study of continuities with the pre-nineteenth century African past, and the profound, even revolutionary changes of the nineteenth century. The impact of increasing contact with the Atlantic World, the continued spread of Islam, the European and American Industrial Revolution the impact of colonial rule and the drastic changes in political and economic organization in West Africa in the last two hundred years, have led to a very difficult post-colonial period in the last forty-five years. There are signs today, of hope, of difficult lessons learned, signs of concrete roads to take towards a healthy,fruitful West African future.  
Style: We use written works and oral traditions and oral history as sources of our information, along with videos.
AFRO 3112 In the Heart of the Beat: the Poetry of Rap
A-F only, 3 credit(s);
Instructor: Pate, Ancel D.
Description: This course is designed to increase the understanding of contemporary African American poetry as expressed by popular culture contributors. Students are asked to analyze and evaluate some of the poems that are used in the music of rap in the context of African American literature, American culture and aesthetics in general. Students must read 3-5 texts. Students must write a journal about each book. These journals, class participation through group and individual recitation along with a final academic paper comprise the evaluative components of this course.

AFRO 3131 Contemporary Issues in Africa
3 credit(s);
Instructor: Okediji, Tade O
Description: Student may contact the instructor or department for information.

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: Atkins, Keletsos 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, 54-70% Lecture, 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 3426 African Americans, Social Policy, and the Welfare State
3 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Mayes, Keith A
Description: This is a course on the history of public and social policy and African Americans. It attempts to familiarize students with some of the most pertinent issues that continue to dominate the news. This course seeks to place into historical context the present-day commentary on social security, affirmative action, welfare, healthcare, and incarceration. Instead of focusing on political movements, we will address the outcome and manifestation of social and political movements, mainly policy concerns and questions. We will begin with the period that ushered in the tradition of social policy—the New Deal. The New Deal, the Great Society, and other attempts by the federal government to involve itself in the lives of ordinary people will be at the center of our course. But we will go beyond this and explore the racial, class, and gender implications of social and public policy. How are African-Americans situated within the welfare state? Do African-Americans receive and share in social benefits to the same degree as other groups? How are African-Americans impacted by education policies such as affirmative action and busing, reforms in welfare, sentencing, and incarceration? What presidential administrations have been amenable to policies that address the problems facing African-Americans? The goal of the course is to turn students into policy-makers.

AFRO 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: Pohlandt-McCormick, Helena
Description: This course is designed to increase the understanding of contemporary African American poetry as expressed by popular culture contributors. Students are asked to analyze and evaluate some of the poems that are used in the music of rap in the context of African American literature, American culture and aesthetics in general. Students must read 3-5 texts. Students must write a journal about each book. These journals, class participation through group and individual recitation along with a final academic paper comprise the evaluative components of this course.

AFRO 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: Githire, Njeri R
Description: This course seeks to explore the literary production of North American Black women from diverse backgrounds and perspectives. Through their varied and common experiences of Black females living in a white male-dominated culture, we will endeavor to understand the social construction of race and gender, as well as their intersection with class and social-economic dynamics. In the Black cultural and literary traditions of truth narratives and transparency, these women share their historical, cultural, and contemporary experiences and insights with verve and authority. At the heart of their literary pursuit is the aspiration to live a more informed, enriched, and inspired life. In so doing, these writers offer us important lessons about creativity, hope, empowerment, courage, and self-expression.
Style: 40% Lecture, 5% Film/Video, 40% Discussion, 5% Small Group Activities, 10% Student Presentation.
Grading: 40% reports/papers, 15% quizzes, 20% in-class presentation, 25% 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: Wright, John Samuel
Description: In AFRO/ENGL 3597W & 3598W, the new two-semester Writing Intensive introduction to African American literature, a cornucopia of literary texts, oral traditions, audiovisual materials, and internet resources bring black literary traditions out of the shadows and under an extended exploratory gaze. The Harlem Renaissance divides the first course (3597W) from this companion course (3598W). AFRO/ENGL 3598W focuses exclusively on the 20th century and opens with the Depression Era 1930s literary insurgency led by Richard Wright and then moves forward through the Civil Rights era and Black Power revolts of SNCC, CORE, and the Black Panthers that helped sponsor the 1960s and 70s "second black renaissance," or Black Arts Movement, of the "New Breed" generation: an urban black popular culture explosion analogous to the earlier "New Negro" era: Broadway and off-Broadway black theatre; African-inspired visual art; music-driven performance poetry and "rapping"; avant-garde Afro-Asian jazz; independent and Hollywood-based "badassed" black cinema; politico-religious sects and charismatic orators like Malcolm X and Stokely Carmichael; "soul music" performers like Ray Charles, James Brown, & Aretha Franklin; and the "young, gifted and Black" writers who celebrated and critiqued it all from the vantage point of the newly articulated, Third World-conscious "black aesthetic" which culminated in the achievements of novelists like Toni Morrison and playwrights like August Wilson.
Style: 40% Lecture, 40% Discussion, 5% Laboratory. CourseLib website on Lumina interface, plus a Course Handbook on Electronic Reserve.
Grading: 73% reports/papers, 17% quizzes, 10% laboratory evaluation.
Exam Format: multiple choice and short answer

AFRO 3601W Introduction to African Literature
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Githire, Njeri R
Description: AFRO 3601W covers both broad and specialized topics in the African literary tradition. Students should be informed that the reading and writing assignments in this class entail exceptionally detailed and sophisticated analyses of texts belonging to a literary tradition with its own unique perspective.
The themes covered will be varied, multi-layered, and complex. Assigned texts will include works by authors from different parts of Africa. Course reserve readings and other extra-textual resources will be geared towards highlighting the composite issues that these texts engage with. Besides the extensive literary readings, cultural and literary theory will be of significant importance in understanding the issues that the literary texts explore. During in-class discussions, cultural and historical backgrounds will be surveyed in order to help illuminate crucial aspects of the societies studied, as well as to reinforce students' understanding of the texts and the dynamics in which they unfold. All this entails that students read, understand, and critically write about the material on its own terms, not any customary,?usual?, and ?prevailing? way the students may be acquainted with prior to taking this class. Students enrolling in this class are expected to be knowledgeable in research methods (reference of sources, citations, writing of research papers?), basic literary vocabulary, concepts and devices. On the whole, the methodological approach to texts in this course is inspired by theoretical perspectives focusing on concepts of identity production (representation, othering, etc.), translation of reality, the relationship between text and context, language and power. Some background knowledge of these theories, while not mandatory, should prove particularly useful.

Style: 40% Lecture, 10% Film/Video, 40% Discussion, 10% Student Presentation. We watch video/films in class related to topics being explored then discuss the material viewed.

Grading: 40% reports/papers, 30% quizzes, 10% in-class presentation, 20% class participation. The assumption being that students read the assigned texts (and view films on reserve) prior to class, pop-quizzes and in class graded exercises will be given in class throughout the semester and they will constitute 20% of the final grade.

Exam Format: Two (2) of four (4) papers, each of them 6-10 pages (typed, double spaced) due on dates indicated on the syllabus. In each one of them, students will be expected to focus on a theme and develop it through careful exploration and analytical insight.

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

AFRO 3685 African American History: 1865 to the Present
4 credit(s); Credit will not be granted if credit has been received for: HIST 3865; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Mayes, Keith A
Description: This course explores the period between Reconstruction and the meaning of black freedom after the Civil War to contemporary issues such as reparations and racial profiling. Afro 3865 begins by examining how the Civil War culminated in the liberation of four million slaves and the attempt by constitutional amendments to right the wrongs of the previous period of enslavement. Though constitutionally free, Reconstruction ended in failure, stripping African-Americans of their newfound citizenship and ushering in the period of Jim-Crow segregation. The course will detail black life under Jim Crow, but highlight African-American agency in the theme of politics, labor, sports, music, and intellectual life. The course turns a crucial corner during the New Deal period and discusses how the 1930s and early 1940s set the stage for the modern civil rights struggle. With the Supreme Court’s decree directly challenging Jim Crow in 1954, African-Americans entered a new phase in their history where protesting for black rights became a defining feature in American culture during the 1960s and 1970s. New leaders and organizations emerged along with novel cultural forms and expressions. The course ends in the contemporary period. What are we to make of the modern day black struggle around race, class, and gender? How are we to interpret the demand for reparations in the age of dismantling affirmative action? What about heightened incidences of police brutality? How do they all connect to the past?

AFRO 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: 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: 20% final exam, 30% reports/papers, 20% class participation, 30% other evaluation. community research
Exam Format: take-home

AFRO 5101 Seminar: Introduction to Africa and the African Diaspora
3 credit(s);
Instructor: Atkins, Keleto E
Description: Student may contact the instructor or department for information.

AFRO 5551 Methods of Oral Traditions as Resources for History
3 credit(s);
Instructor: Colfman, Victoria Bomba
Description: Student may contact the instructor or department for information.
AFRO 8554 Seminar: Gender, Race, Nation, and Policy--Perspectives from Within the African Diaspora  
3 credit(s); prerequisite instructor consent; 
Instructor: Brewer, Rose Marie  
Description: Student may contact the instructor or department for information.

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

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

AFEE 5698 Teaching Internship  
3-8 credit(s), maximum credits 8, 1 completion allowed; prerequisite admission to initial licensure program; credit will not be granted if credit has been received for: WHRE 5698; 
Instructor: Westrom, Lyle Emil  
Description: Student may contact the instructor or department for information.

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

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

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

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

AGRO 3203W Environment, Global Food Production, and the Citizen  
3 credit(s); prerequisite BIOL 1009 or equivalent; credit will not be granted if credit has been received for: AGUM 2224; meets CLE requirement of Citizenship/Public Ethics Theme; meets CLE requirement of Environment Theme; meets CLE requirement of Writing Intensive; 
Instructor: White, Michael Ernest  
Description: Sustainable production of food is crucial to human survival. Different agricultural ecosystems have developed around the world that are influenced by and have an impact on the environment. This course examines how the environment constrains the capacity to produce food and the impact of agriculture on the environment from a global perspective. Topics include human population growth and hunger, ecological...
properties of agricultural ecosystems, issues of biodiversity, natural resource conservation, pollution, water and waste management. The course is Writing Intensive and utilizes the Active Learning Classroom to provide a group learning environment. The course utilizes decision cases, discussions, writing and readings to enable you to reflect upon global perspectives of compelling contemporary and historical issues in the regions of Africa, Asia and the European Union involving sustainability and to engage in ethical debate about global food production with respect to environmental, societal and economic perspectives. Students with no prior exposure to agriculture are encouraged to enroll. An introductory knowledge of biological concepts would be helpful.

**Style:** 35% Lecture, 35% Discussion, 20% Small Group Activities. Active Learning, decision cases, group work.

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

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

**AGRO 3660 Plant Genetic Resources: Identification, Conservation, and Utilization**
A-F only, 3 credit(s); prereq Introductory biology;
Instructor: Stupar, Robert M
Description: Student may contact the instructor or department for information.

**AGRO 3660 Plant Genetic Resources: Identification, Conservation, and Utilization**
A-F only, 3 credit(s); prereq Introductory biology;
Instructor: Stupar, Robert M
Description: Student may contact the instructor or department for information.

**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 4096 Professional Experience Program: Internship**
S-N only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq CFANS undergrad, instr consent, completed internship contract from CFANS;
Instructor: Cardwell, Vernon Bruce
Description: Student may contact the instructor or department for information.

**AGRO 4401 Plant Genetics and Breeding**
4 credit(s); prereq [Biol 1009 or equiv or grad], instr consent; Credit will not be granted if credit has been received for: HORT 4401;
Instructor: Thill, Christian A
Description: This course is designed for undergraduate or Master of Agriculture students. The emphasis will be on plant genetics and breeding and requires no prior genetics course (although a biology course is required). Students taking the course should be interested in using the products of plant breeding rather than being a professional plant breeder. The purpose of this course is to cultivate an appreciation for the fundamental principles of plant genetics and genetic processes and the procedures plant breeders use to create new varieties. Topics range from molecular aspects of genetics, Mendelian genetics, biotechnology, and genomics to variety development, seed multiplication, and intellectual property issues. Class material on Web CT/ Web Vista.

**Style:** 55% Lecture, 3% Film/Video, 5% Discussion, 30% Laboratory, 5% Small Group Activities, 2% Student Presentation. Laboratory involves working with plant material in the greenhouse.

**Grading:** 15% midterm exam, 25% final exam, 20% reports/papers, 15% special projects, 10% quizzes, 15% additional semester exams. Reports and papers and special project part of labs

**Exam Format:** The exams emphasize problem solving and synthesis of material from lecture and labs. Questions are short answer, TF multiple choice, matching, vocabulary and problems.

**AGRO 4505 Biology, Ecology, and Management of Invasive Plants**
3 credit(s); prereq 4005, [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: Ehike, Nancy Jo
Description: Student may contact the instructor or department for information.

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

**AGRO 5999 Special Topics: Workshop in Agronomy: Food & Agri from Cairo to Cape Town at 10mph**
3 credit(s), max credits 6, 3 completions allowed; prereq Jr or sr or grad student;
Instructor: Brakke, Mary Patricia
Description: Student may contact the instructor or department for information.

**AGRO 8202 Plant Breeding Principles II**
3 credit(s); prereq [5201, Stat 5021] or instr consent;
Instructor: Bernardo, Rex N
Description: Student may contact the instructor or department for information.

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

**AGRO 8280 Current Topics in Applied Plant Sciences**
S-N only, 1 credit(s); prereq Grad major in agro or applied plant sciences or ent or hort or 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 1001 American Indian Peoples in the United States**
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: STAFF
Description: This course is intended to give students a general overview of the contemporary and historic experiences of American Indian peoples in the United States and Canada. It challenges the dominant culture's stereotypes and its unthinking assumptions about American Indian people in the past and present. It shows how the peoples of America's First Nations engaged the presence and representations of foreigners in their midst through acts of resistance, rebellion, accommodation, and innovation. In the process, it illustrates the great diversity of tribal cultures and histories in North America, and it gives evidence of this in the areas of identity, work, philosophy, politics, society,
OURSE GUIDE FOR TWIN CITIES CAMPUS

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: Redix,Erik M
Description: Student may contact the instructor or department for information.

AMIN 3107 Structure of Anishinabemowin, 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 Anishinabemowin.

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

AMIN 3201W American Indian Literature
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Meland,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 various writers approach this question and we will familiarize ourselves with their ideas, themes, and techniques 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 paper. You will read four or five books for the course as well as a half-dozen or so short readings. As the course is Writing-intensive you will also do about 40 pages of writing.
Style: 10% Lecture, 90% Discussion.
Grading: 80% reports/papers, 20% quizzes.

AMIN 3301 American Indian Philosophies
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: The purpose of this course is to introduce students to the philosophical thought and spiritual beliefs of native peoples of North America. Students will examine a broad spectrum of issues which influence the worldview of native people on this continent, including European contact and thought. Students may find some of the issues to be controversial and personally challenging, however, a thorough discussion of the impact of European influences is important to understanding native people's resistance and survival. Finally, students will also explore the ways in which native philosophy and spiritual practices shape native life experience in a society viewed by many native people as being at odds with their beliefs.
Style: 60% Lecture, 40% Discussion. Group work.
Grading: 33% mid exam, 33% final exam, 17% reports/papers, 17% class participation.
Exam Format: The exams will be a take home essay.

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

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

AMIN 3871 American Indian History: Pre-Contact to 1830
3 credit(s); Credit will not be granted if credit has been received for: HIST 3871; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Williams,Kate
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,Robin 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 4511 American Indian Political Economy**
3 credit(s); prereq 1001; Meets CLE req of Cultural Diversity Theme;
Instructor: Wilkins, David E
Description: This course focuses on the sources, nature, and consequences of Indian political and economic “underdevelopment.” We will read and discuss different theoretical approaches which purport to explain why tribal nations are still underdeveloped economically (notwithstanding the myth that Indian gaming has made all tribes wealthy); we will examine the U.S. government’s efforts to both stimulate and restrict tribal political/economic development; and we will discuss the critical role that indigenous “value” plays in questions of tribal development. We will focus on several crucial issues areas (i.e., Indian gaming, tribal-state relations, energy resources, urban Indians, and Indian water rights) and we will examine several tribes as case studies to see how and why they have or have not been “successful” in the area of political/economic development. This is an upper-division class with a writing emphasis. Students will be expected to read several books, do reserve readings, and will be required to write a major research paper and several shorter papers. Texts will include, but not be limited to: Richard White, “The Roots of Dependency,” Elizabeth Cheechio and Bonnie G. Colby, “Indian Water Rights,” Susan Guyette, “Planning for Balanced Development: A Guide for Native American and Rural Communities,” and Donald Fixico, “The Invasion of Indian Country in the Twentieth Century: American Capitalism and Tribal Natural Resources.”

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

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

**Exam Format:** Essay.

**AMIN 4525W Federal Indian Policy**
3 credit(s); Credit will not be granted if credit has been received for: POL 4525W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Wilkins, David E
Description: Student may contact the instructor or department for information.

**AMIN 4990 Topics in American Indian Studies: Digital Storytelling In & With American Indian Std**
3 credit(s), max credits 8;
Instructor: Melian, Carter
Description: Student may contact the instructor or department for information.

**AMIN 4990 Topics in American Indian Studies: Senior Projects in American Indian Studies**
1-4 credit(s), max credits 8;
Instructor: Child, Brenda J
Description: Student may contact the instructor or department for information.

**AMIN 4990 Topics in American Indian Studies: Magical Realism/Magic in Contemporary Native Text**
1-4 credit(s), max credits 8;
Instructor: Power, Susan Mary
Description: Student may contact the instructor or department for information.

**AMIN 5107 The Structure of Anishinaabemowin, the Ojibwe Language**
A-F only, 3 credit(s); prereq 3104; Credit will not be granted if credit has been received for: AMIN 3107;
Instructor: Nichols, John David
Description: Student may contact the instructor or department for information.

**American Sign Language**
240 VoTech Building

**ASL 1701 American Sign Language I**
5 credit(s);
Instructor: STAFF
Description: A study of the fundamentals of American Sign Language: Introduction to learning and understanding American Sign Language, cultural values and rules of behavior of the deaf community in the United States. Includes receptive and expressive readiness activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, and deaf culture.

**ASL 1702 American Sign Language II**
5 credit(s); prereq 1701 with a final grade of at least [S or C-] or instr consent 1701 with a final grade of at least [S or C-] or instr consent 1701 with a final grade of at least [S or C-] or instr consent 1701 with grade of at least [S or C-] or dept consent;
Instructor: STAFF
Description: Continuation of the study of the fundamentals of American Sign Language: Increased communication skill in American Sign Language, cultural values and behavioral rules of the deaf community in the U.S., receptive and expressive, sign vocabulary, grammatical structure, receptive and expressive finger spelling and aspects of deaf culture. (SP-ASL 1701 or instructor approval)

**ASL 3703 American Sign Language III**
5 credit(s); prereq 1702 with final grade of at least [S or C-] or instr consent 1702 with final grade of at least [S or C-] or instr consent 1702 with final grade of at least [S or C-] or instr consent 1702 with grade of at least [S or C-] or dept consent;
Instructor: STAFF
Description: Expanded instruction of American Sign Language receptive and expressive activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, narrative skills, cultural behaviors, and aspects of deaf culture. Abstract and conversational approach. (SP-ASL 1702 or instructor approval)

**ASL 3704 American Sign Language IV**
5 credit(s); prereq 3703 with grade of at least [S or C-] or dept consent;
Instructor: STAFF
Description: Increases the emphasis on more abstract and challenging conversational and narrative range. Includes receptive and expressive readiness activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, various aspects of deaf culture and cultural behavior rules. (SP-ASL 1703 or instructor approval)

**ASL 3705 Cultural Perspectives of Deafness**
3 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: STAFF
Description: Introduction to the deaf community as a linguistic and cultural minority group. The role of deaf people in the larger society, political activism, laws, access to information, educational philosophies and methods, and communication systems.

**American Studies**
104 Scott Hall

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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: Child,Brenda J
Description: The Twin Cities are global cities in an international state! Minnesota, contrary to the stereotypes, has always been a racially and culturally diverse state. This course will examine what diversity and pluralism mean and how they work in the United States by focusing on Minnesota. How did the cultural groups who contributed to the making of Minnesota influence the development of ideas, laws, and movements in the state and beyond? As we focus on Minnesota as a site of cultural diversity, we will address the following questions: Who are the people indigenous to Minnesota and what did they experience with the founding of the state? How and why did specific groups of people travel and move to Minnesota? How have global politics, the economy, and work, influenced decisions to choose Minnesota? How have groups built community in Minnesota? What artistic, literary, and other contributions have they made to Minnesota life? We will apply these questions to Native peoples, early immigrants from Europe, and recent immigrants and refugees. Students will read historical accounts, memoirs, novels, and view films and art.
Style: 50% Lecture, 25% Discussion. Film or Speaker
Grading: 25% final exam, 50% reports/papers, 25% class participation.
Exam Format: essay, short answer

AMST 3114 America in International Perspective
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspective Theme;
Instructor: May,Lary L
Description: The nature of international culture exchange. We will explore the impact of US media culture on other countries of the world, as well as the impact of other cultures and media on the United States. One class a week, focusing on the media and politics in other nations. This class will be held in common with courses in Journalism and History.

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: Urquhart,Alex T
Description: Student may contact the instructor or department for information.

AMST 3253W American Popular Culture and Politics: 1940 to the Present
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: In this course, we will examine how the United States changed since World War II as a result of domestic and international struggles, exploring the role popular culture played in this transformation. During these years the nation became an international power, altering the ways in which Americans understood their place in the world. A new consumer culture and domestic ideal became linked to American identity and Cold War politics. Within the U.S., challenges to the mainstream took the form of a new counter culture, the assertion of black citizenship, and the rise of feminism, each demanding participation in public life and a redefinition of the hierarchies of the past. In this course, we will look at the ways in which these conflicts at home and abroad have changed the ways Americans think about themselves as citizens and the place of our nation in the world.
Style: To be announced instructor will provide specific information
Grading: Grading will be determined by to be announced instructor

AMST 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 3993 Directed Studies
1-9 credit(s), max credits 9, 1 completion allowed; prereq instr consent;
Instructor: STAFF
Description: Arrangements must be made with the professor who oversees the project.

AMST 4101 Gender, Sexuality, and Politics in America
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: STAFF
Description: Ways public and private life intersect through the issues of gender, sexuality, family, politics, and public life; ways in which racial, ethnic, and class divisions have been manifest in the political ideologies affecting private life. Class time, workload, grading and exam format are determined by instructors. The style of each instructor varies with the instructor's expertise.
Style: Will be determined by course instructor
Grading: Will be determined by instructor

AMST 4301 Workers and Consumers in the Global Economy
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspective Theme;
Instructor: Murphy,Ryan P
Description: In October of 2008, a crisis in the real estate and banking industries precipitated a political and social upheaval across the globe. This course historically analyzes the political and economic system in which the meltdown? of 2008 is embedded: free market capitalism. The class pays particular attention to how race, gender, and sexuality shape capitalist economies and inform political efforts to intervene in them. The semester is divided into three sections. Each describes a different historical variant of capitalism, briefly engages its underpinnings in political and economic thought, and then analyzes historical events to deepen and revise understandings of the period. Students will research and reflect upon transformative moments in U.S. and global capitalism: investment banking as a mechanism of imperialism after 1900, the racial violence of industrial agriculture in the 1930s, the nuclear family as the basis for the mid-twentieth century welfare state, corporate and government efforts to dismantle the union movement after 1970, and the political and cultural prominence of Wall Street in the 1980s. Drawing on contemporary film, foundational political economic texts, and recent scholarship in history, political theory, geography, and gender and sexuality studies, the course takes an interdisciplinary approach to the dominance of U.S. capitalism and efforts to challenge it.

AMST 4962W Second Proseminar in American Studies
3 credit(s); prereq AmSt sr or instr consent ; Meets CLE req of Writing Intensive;
Instructor: Pierce,Jennifer L
Description: This course is designed to guide and support students as they write a research paper that is required of all majors in American Studies. The group will work together and
help each other move through several stages of research and writing. The aim is to give students thoughtful evaluation, support and feedback on their work in its first and final stages. The final paper will be based on original research, using a mixture of secondary and primary sources

**Style:** 25% Lecture, 25% Discussion, 25% Small Group Activities, 25% Student Presentation.

**Grading:** class exercises and first draft of paper will be 50 percent of final grade Final research paper will be 50 percent of final grade

**AMST 8202 Theoretical Foundations and Current Practice in American Studies**

3 credit(s); prerequisite grad AmSt major or instr consent or dept consent;

**Instructor:** Fajardo,Kale Bantigue

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

**AMST 8401 Practicum in American Studies**

S-N only, 3 credit(s); prerequisite instr consent;

**Instructor:** Karjänen,David J

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

**AMST 8920 Topics in American Studies: Personal Narratives in Interdisciplinary Research**

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

**Instructor:** Pierce,Jennifer L

**Description:** This course examines epistemological, theoretical, and methodological questions related to research using personal narrative sources such as autobiographies, memoirs, oral histories, in-depth interviews, diaries, and letters. As narrative constructions about selves, these sources can provide unique insights into subjectivity, meaning, emotions, and desires that other kinds of evidence cannot. The evidence presented in personal narratives is unashamedly subjective and, its narrative logic presents a story of an individual subject changing and developing over time. Their analysis can provide insights into the history of the ?self? and its variations at the same time that they have the potential to enrich theories of social action and human agency. We begin by reading theoretical scholarship about personal narratives followed by a focus on different kinds of studies analyzing personal narrative sources in fields such as American studies, history, sociology, and anthropology. Finally, we address ethics of research drawing from life stories. Some of the readings include: John Eakin, How our Life Becomes Stories; MJ Maynes et al., Telling Stories; Karen Fields, Lemon Swamp; Hokulani Alkau et al., Feminist Generations; Wendy Luttrell, Pregnant Bodies, Fertile Minds; Joan Brumberg, The Body Project; Walter Johnson, Soul by Soul: Life in the Antebellum Slave Market; Carolyn Steedman, Landscape for a Good Woman; and Thomas Coules, Vulnerable Subjects

**Style:** 10% Lecture, 65% Discussion, 25% Student Presentation.

**Grading:** 90% reports/papers, 10% in-class presentation.

**AMST 8920 Topics in American Studies: Thinking Through Transnationalism**

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

**Instructor:** Castellanos,Blane

**Description:** This course critically engages with the concept of ?transnationalism? through an examination of its intellectual genealogy. We will trace the evolution of this term from its origins in finance to its use in queer theory and studies of migration, gender, class, race, and nationalism. The latter part of the course will be dedicated to reading ethnographies that employ a transnational framework and will provide a forum for examining more critically the ways this concept is used and deployed by scholars to discuss the politics of place, displacement, gender, sexuality, race, and citizenship. We will also interrogate the methodologies these scholars used to map out transnational practices.

---

**ANAT 3601 Principles of Human Anatomy**

3 credit(s); prerequisite BIOI 1002 or BIOI 1009 or BIOI 2002 or equiv.

**Instructor:** Weinhaus PhD,Athony 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 3001. (It is advised that students take Principles of Human Anatomy laboratory with this lecture). Prerequisites are: at least sophomore status, and completion of Biology 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); prerequisite 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; Credit will not be granted if credit has been received for: ANAT 3612;

**Instructor:** Weinhaus PhD,Athony 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 3001/ 3611 or ANAT 3001/ 3301; AND at least sophomore status AND completion of Biology 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); prerequisite BIOI 1002 or BIOI 1009 or BIOI 2002 or equiv., at least soph;

**Instructor:** Weinhaus PhD,Athony 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 3001. (It is advised that students take Principles of Human Anatomy laboratory with this lecture). Prerequisites are: at least sophomore status, and completion of Biology 1001/ 1002 or 1009 (or equivalent).

**Style:** 100% Lecture.

**Grading:** 8% quizzes, 92% additional semester exams.

**ANAT 3612 Principles of Human Anatomy Laboratory**

2 credit(s); prerequisite 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
ANSC 1101 Introductory Animal Science
4 credit(s);
Instructor: Seykora,Anthony James
Description: This course is an introduction to animal science with emphasis on genetics, physiology and nutrition. Production systems relative to the horse, dairy, sheep, poultry, swine and beef industries are introduced. Additional topics include man's relationship to animals, current issues and future perspectives of animal agriculture.
Style: 70% Lecture, 10% Discussion, 20% Laboratory.
Grading: 40% mid exam, 20% final exam, 10% laboratory evaluation, 50% problem solving.
Exam Format: Multiple choice and short answer.

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

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

ANSC 2211 Biometrics for Livestock
3 credit(s); prerequisite 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 and Biophysics 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 biological 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); prerequisite 2401;
Instructor: Hathaway,Marcia R
Description: This course will include the basic principles of nutrition with emphasis on the unique aspects of equine nutrition. Emphasis will be on nutritional needs of healthy animals as well as the various factors that play a role in feeding an animal adequately. These factors include animal behavior, growth and development, physiological status, environmental conditions, food type and availability. The course will focus on developing an understanding of how the physiology of the horse's gastrointestinal tract, the utilization of feedstuffs and the horse's nutritional requirements 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); prerequisite 2011 or instructor consent;
Instructor: Hansen,Leslie Bennett
Description: Especially for students interested in competing with the intercollegiate dairy cattle judging team. A week class of four dairy cows will be selected for which oral reasons will be prepared. The one set of reasons each week will be presented numerous times to improve technique.
Style: 100% Discussion.
Grading: 100% in-class presentation.

ANSC 3203W 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/Publ Ethics Theme; meets CLE req of Environmental Theme; meets CLE req of Writing Intensive;
Instructor: White,Michael Ernest
Description: Sustainable production of food is crucial to human survival. Different agricultural ecosystems have developed around the world that are influenced by and have an impact on the environment. This course examines how the environment constrains the capacity to produce food and the impact of...
agriculture on the environment from a Global Perspective. Topics include human population growth and hunger, ecological properties of agricultural ecosystems, issues of biodiversity, natural resources: conservation, pollution, water and waste management. The course is Writing Intensive and utilizes the Active Learning Classroom to provide a group learning environment. The course utilizes decision cases, discussions, writing and readings to enable you to reflect upon global perspectives of compelling contemporary and historical issues in the regions of Africa, Asia and the European Union involving sustainability and to engage in ethical debate about global food production with respect to environmental, societal and economic perspectives. Students with no prior exposure to agriculture are encouraged to enroll. An introductory knowledge of biological concepts would be helpful.

Style: 35% Lecture, 35% Discussion, 20% Small Group Activities. Active Learning, decision cases, group work

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

Exam Format: short essay and multiple choice

ANSC 3301 Human and Animal Physiology

3 credit(s); prereq BIOL 1009, CHEM 1011, [BIOC 2011 or [CHEM 1021, CHEM 1022]], CHEM 2301;
Instructor: Wheaton, Jonathan E
Description: This is an immediate level course that covers the functions of the major organ systems: the nervous system, muscles, cardiovascular, respiration, renal, endocrinology, blood, immunology and reproduction. The course is intended for upper division undergraduate students.
Style: 70% Lecture, 30% Laboratory.
Grading: 65% mid exam, 13% quizzes, 22% laboratory evaluation.

Exam Format: One essay-type exam, others are 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 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; prereq CFANS undergrad, instr consent, agreement form;
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; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Hansen, Leslie Bennett
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Seykora, Anthony James
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
Instructor: White, Michael Ernest
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Mauro, Laura J.
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Hathaway, Marcia R
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Ward, Christie
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship

S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Rozeboom, Kyle James
Description: Student may contact the instructor or department for information.
ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Raeth-Knight, Mary Louise
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
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; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Stern, Marshall D
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
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; prereq CFANS undergrad, instr consent, agreement form;
Instructor: O’Grady PhD, Scott M
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
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; prereq CFANS undergrad, instr consent, agreement form;
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 completions 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 completions allowed;
Instructor: Seykora, Anthony James
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Foster, Douglas N
Description: Student may contact the instructor or department for information.

ANSC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Ponce de Leon, F. Abel
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; prereq CFANS undergrad, instr consent, agreement form;
Instructor: Dayton, William R
Description: Student may contact the instructor or department for information.

ANSC 4604 Dairy Production Systems Management
4 credit(s); prereq Concurrent registration is not allowed in 4611 4611;
Instructor: Renua, Jeffrey Kimball
Description: This course is focused on the management of dairy herd management. The course is designed to build problem solving skills in a real-world setting. Most of the class time is spent in decision case discussions. Laboratories will be spend 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 financial management, nutrition and forages, reproduction, milk quality and mastitis, genetics and young stock management and 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 herds strengths and weaknesses and make recommendations to improve herd profitability.
Style: 25% Lecture, 50% Discussion, 25% Laboratory.
Grading: 60% midterm, 40% final exam, 20% class participation.
Exam Format: essay

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

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

ANSC 4614 Dairy Production Systems Management
4 credit(s); prereq Concurrent registration is not allowed in 4614;
Instructor: Renua, Jeffrey Kimball
Description: This course is focused on the management of dairy herd management. The course is designed to build problem solving skills in a real-world setting. Most of the class time is spent in decision case 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 financial management, nutrition and forages, reproduction, milk quality and mastitis, genetics and young stock management and 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 herds strengths and weaknesses and make recommendations to improve herd profitability.
Style: 25% Lecture, 50% Discussion, 25% Laboratory.
Grading: 60% midterm, 40% final exam, 20% class participation.
Exam Format: essay

ANSC 4611 Advanced Pork Production Systems Management
2 credit(s); prereq 4601;
Instructor: Shurson, Gerald C
Description: This course is designed for students who have considerable interest and experience in pork production systems. Students enrolled in this course should have successfully completed AnSc 4601 concurrently. Advanced Pork Production Systems Management will focus on concepts and application of...
new emerging technologies in the pork industry, pork chain management, and experience developing tools to improve operational systems management.

**Style:** 20% Lecture, student presentations and in-class assignments

**Grading:** 50% reports/papers, 50% class participation.

**ANTH 4612 Tools for Dairy Consultants in the 21st Century**

A-F only, 2 credits; prerequisite 4604;

**Instructor:** Reneau, Jeffrey Kimball

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

**ANTH 4614 Advanced Dairy Production Systems Management**

A-F only, 2 credits; prerequisite 4604;

**Instructor:** Reneau, Jeffrey Kimball

**Description:** This course is a continuation of 4604 (see description of 4604). To enroll in this class, students must have previously completed ANSc 4604. The intent of this class is to provide dairy management students with additional problem solving skill and experience.

**ANTH 8131 Molecular Biology Techniques**

3 credits; prerequisite BioC 3532, Biol 4003; Credit will not be granted if credit has been received for: CMB 8335;

**Instructor:** Foster, Douglas N

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

**ANTH 8141 Mixed Model Methods for Genetic Analysis**

A-F only, 2 credits, max credits 4; prerequisite 5200 or CMB 5200 or equiv;

**Instructor:** Da, Yang

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

**ANTH 8211 Animal Growth and Development**

3 credits; prerequisite instructor consent;

**Instructor:** Dayton, William R

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

**ANTH 1001 Human Evolution**

4 credits; meets CLE req of Biological Sciences/Lab Core;

**Instructor:** Monnier, Gilliane F

**Description:** Humans are unique in the animal world. In this class, we will take a journey through time to examine the evolution of humans, and how natural selection - the same process that gives the butterfly its wings, the horse its speed, and the worm its wiggle - also shapes our own anatomy and behavior. Our goal is to reconstruct the evolutionary history of our lineage, and the anatomy and behavior of our ancestors. The first half of the course is based firmly in the present, and will give you a strong background in evolutionary theory: Natural Selection, basic genetics, principles of behavioral biology and the comparative anatomy of living organism (primarily monkeys and apes). In the second half of the course we will attempt to reconstruct the ecology, diet, anatomy, locomotion and even the social behavior of the hominids (human ancestors) using the evolutionary principles learned in the first half of the course. Among the big questions in human evolution &quot; that we will address are: What were the earliest hominids, the australopithecines, like? How did climate change affect macro-and micro-evolutionary patterns? How does tool use and culture feed back upon our bodies? How far back in time does modern human behavior date, and what is the evidence for it? When and where did our species, Homo sapiens, in its modern form, originate?

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

**Grading:** 45% mid exam, 20% final exam, 5% reports/papers, 30% laboratory evaluation.

**Exam Format:** Multiple choice

**ANTH 1001H Honors: Human Evolution**

4 credits; prerequisite honors; meets CLE req of Biological Sciences/Lab Core;

**Instructor:** Tappen, Martha

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

**ANTH 1003W Understanding Cultures**

4 credits; meets CLE req of International Perspective Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

**Instructor:** STAFF

**Description:** Introduction to social and cultural anthropology for undergraduate majors and non-majors. Comparative study of societies and cultures around the world. Topics include adaptive strategies; economic processes; kinship, marriage and gender, social stratification; politics and conflict; religion and ritual; personality and culture. We will survey a variety of human cultures and explore theories about the evolution, function and meaning of culture.

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

**Exam Format:** multiple choice; essay

**ANTH 1005V Introduction to Cultural Diversity and the World System**

A-F only, 4 credits; meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;

**Instructor:** Dean, Diane M

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

**ANTH 1005W Introduction to Cultural Diversity and the World System**

4 credits; meets CLE req of Cultural Diversity Theme; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;
**ANTH 1903 Freshman Seminar: The Culture of Financial Crisis**
A-F only, 3 credit(s); prereq Fr; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Ho,Karen Z
Description: The 2008 U.S. financial meltdown, which spread globally and engendered widespread socioeconomic inequalities and suffering, was instigated in large part in the corridors of Wall Street investment banks and financial institutions. This seminar is an investigation of the culture and practices of investment bankers and banks that helped to catalyze this crisis. We delve into the question of how was Wall Street able to do what it did, exploring the history of U.S. financial institutions, their rise to power and influence over the past thirty years, and the particular morality, values, and ethics they impart. We also investigate the hand of government and larger American cultural practices and values in this crisis, such as consumption, debt, governmental deregulation, and the ideology of free markets. Throughout, we pay attention to the ethical role of financial institutions in our civic life: what are their values, how do they envision the role of business and finance in society, and how have they wielded their power and made decisions that have affected the very nature of work, corporations, ownership, and security in America?

**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: Humans, like all other species, are an integral part of the ecology of the earth. We display a series of adaptations that allow us to eat, grow, find mates, and raise offspring. How have human adaptations been modified over time? For example, as we spread out of Africa beyond the low latitudes? How do our adaptations change as we change our own environment? For humans, our interactions with the environment include a high dependence on sociality, technology, agriculture, trade, and today, fossil fuels. We will consider changes in human diets, methods of food acquisition, geographic distribution, social structure from the earliest ape-like humans through the Stone Age into the present day. How long have humans made a significant impact on the environment?

**ANTH 3001 Introduction to Archaeology**
4 credit(s);
Instructor: Monnier,Gilliane F
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: Hauff,Laura E
Description: As human beings, our lives are profoundly shaped by our sexual identity and behavior. Whether we are women or men, straight or gay, celibate or sexually active, sex influences who we are and what we do in countless ways. In recent years, researchers inspired by evolutionary theory have made significant steps towards answering many of the fundamental questions about our existence as sexual beings. Why do we reproduce sexually instead of simply cloning ourselves? Why do we have two sexes, rather than one, or three, or five? Why do the sexes differ? What differences between men and women are consistent across different cultures? What do men and women want? If evolution is all about reproductive success, why do people use contraception, or have sex with members of their own sex? This class will provide an introduction to and critical reading of the latest efforts to explain the evolution of sexual differentiation, courtship, mating, marriage, divorce, parenting, aggression, cooperation, and other aspects of our behavior as sexually reproducing organisms.

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

**ANTH 3009 Rise of Civilization**
3 credit(s); Meets CLE req of International Perspectives 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: 85% Lecture, 5% Discussion.
Grading: 45% mid exam, 35% final exam, 20% reports/papers.
Exam Format: multiple choice, essay

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

**ANTH 3022W Anthropology of Dreaming and Myth**
A-F only, 4 credit(s); Meets CLE req of Writing Intensive;
Instructor: Ingham,John M
Description: This course offers an overview of anthropological research on dreaming and myth. It explores universal features of dreaming and myth as well as how they vary in different cultural settings. We see how dreams and myths use symbolism and other figurative devices to convey meaning, and we consider approaches to understanding their functions and organization. We also see how dreams appear in myths and how myths influence dreams. Dreams and myths, in turn, allow us to pose questions about the interrelation between individual personality and culture, and about the role of fantasy in human life.
Style: 70% Lecture, 30% Discussion.
Grading: 30% mid exam, 25% final exam, 45% reports/papers.
Exam Format: essay and short answer

**ANTH 3029 Archaeology of Native Americans**
3 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Gibbon,Guy E
Description: This course provides a contemporary understanding of the pre-Columbian and historic-era cultural
ANTH 3043 Art, Aesthetics and Anthropology
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Kaiser,Sara
Description: Art, Aesthetics & Anthropology: Exploring the production of meaning. This course will examine the relationship of art to culture from multiple perspectives, including: art as a cultural system; the cultural context of art production; the role of the artist in different cultures; and methodological considerations in the interpretation of art across cultural boundaries. More specifically, we’ll be drawing upon the work of scholars and artists to consider art worlds from a cross-cultural perspective, in order to gain insight into how and why people come to participate in aestheticized practices of cultural production and consumption. We’ll be paying particular attention to the manner in which cosmopolitan fields of artistic production both reflect and reproduce existing structures of dominant Western (post)modernity on the one hand, and provide individual agents with resources to negotiate and/or contest them, on the other, through affective experiences that expand vistas of subjectivity and identity. Course Objective: To develop and put into action a critical, responsible, and effective ethnographic understanding of aesthetic practice.
Style: 35% Lecture, 5% Film/Video, 40% Discussion, 10% Student Presentation, 10% Field Trips.
Grading: 50% reports/papers, 5% quizzes, 20% reflection paper, 10% in-class participation, 10% class participation, 5% other evaluation. unexcused absences may effect grade; students may submit field journals for evaluation purposes.
challenges to the very foundations of what constitutes ethnographic fieldwork. How have the processes of globalization, transnationalism, postcolonially, and the rise of virtual "online" communities changed our notions of "the field" and the singular field site? What are the dialectics and complex negotiations of self and other given the challenges of "native" anthropologists and the discipline's heightened attention to inequality? How have anthropological ethics and reflexivity changed over time, and how have interdisciplinary engagements with critical theories of feminism, race, and power framed the very questions we ask, and the way we address them? How have anthropologists innovated new ethnographic approaches that demonstrate the continued importance of the anthropological toolkit?  
**Style:** 30% Lecture, 40% Discussion. Ethnographic Field Project  
**Grading:** 50% reports/papers, 25% special projects, 10% in-class presentation, 15% class participation.

ANTH 4049 Religion and Culture  
3 credit(s); prerequisite 1003 or 1005 or instr consent;  
**Instructor:** Song, Hoon  
**Description:** Student may contact the instructor or department for information.

ANTH 4103 Archaeologies of Colonialism  
3 credit(s); prerequisite 1xxx anthropology course or instr consent;  
**Instructor:** Hayes, Katherine F. H.  
**Description:** Much of what we know and theorize about colonialism is based in the history of European expansion in the past 500 years, drawing particularly from the documentary records of that period. But how do we define colonialism in general terms, without referring to a specific historical era? What kinds of relationships are expected between colonizer and indigenous populations? And what of the long-term consequences of these historical encounters, like disease, landscape and environment change, intermarriage, enslavement, and the creation of new markets and spheres of trade?  
Archaeology is a discipline uniquely equipped to investigate the many perspectives on colonialism, because it takes ALL material remains of the past as its evidentiary base, not just the curated or archived materials. Although all archaeologists make use of this same evidentiary base, their interpretive frameworks vary widely. Why is this? Where does this variability stem from? And how do you recognize theoretical influences in, and implications of, archaeological interpretations? These interpretations have consequences even today, in the discourses of multiculturalism and diversity in contemporary society. Indeed, archaeology itself has very often been both product and tool of colonialist enterprises. In this seminar, you will read, discuss, and write critically about some of the major frameworks used by anthropological archaeologists in the past century to interpret sites of colonial encounters, including broader discussions of what colonialism itself is; what the role of material culture is in such circumstances; whether it is solely a product of the "modern world"; what types of power relations and processes occurred between colonizers, indigenous groups, and coerced labor; and how cultures changed in response. We will also read case studies, from a select number of regions and periods: North America (especially the Great Lakes region, California, and the Northeast), Roman Empire, West Africa, and Mesopotamia.  
These case studies consider the impacts of colonization on either or both indigenous populations and colonizers, both short and long term.

ANTH 5015W Biology, Evolution, and Cultural Development of Language  
3 credit(s); credit will not be granted if credit has been received for: ANTH 3015W; Meets Core req of Social Science Core; 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 5029 Philosophical Anthropology  
A-F only, 3 credit(s); prerequisite sr or grad or instr consent;  
**Instructor:** Song, Hoon  
**Description:** Student may contact the instructor or department for information.

ANTH 5269 Analysis of Stone Tool Technology  
A-F only, 4 credit(s); prerequisite 1001 or 3001 or instr consent;  
**Instructor:** Toste, Vincent, Gilbert B  
**Description:** An archaeologist once stated &quot;Love is fickle but stone tools are forever.&quot; This course takes this principle to heart in order to teach serious undergraduates and beginning graduate students how archaeologists can learn what it means to be human through the study of our ancestors' stone tools. From a scientific point of view, as the vast majority of human existence has been spent using stone tools as the primary medium for the interaction between humans and the environment, understanding the causes of change in stone tool variation through time is fundamental to understanding the human past. The goals of this course include 1) a comprehensive survey of known stone tool making processes (known as flintknapping), 2) a critical examination of different traditions of studying stone tools among archaeologists around the world, and 3) practical experience with analyzing an entire stone tool collection from an experimental archaeological site in order to reconstruct the behaviors, from procurement of raw stone to the discard of the exhausted tools, which produced the site and its collection. This course also provides students with hands-on experience in the practice of making stone tools for analysis. This is a practical laboratory class: the successful completion of this course will allow you to perform the tasks required of archaeologists currently working in the Cultural Resource Management industry. Space is limited so please email tosteb003@umn.edu to enroll.  
**Style:** 20% Lecture, 50% Laboratory, hands-on flintknapping; 5% films  
**Grading:** 45% other evaluation. laboratory reports; 30% final paper; 15% two in-class quizzes; 10% discussion participation  
**Exam Format:** multiple choice and short answer

ANTH 5405 Human Skeletal Analysis  
A-F only, 3 credit(s); prerequisite 1001 or instr consent; credit will not be granted if credit has been received for: ANTH 3405;  
**Instructor:** Kirchhoff, Claire Ann  
**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.
ANTH 5890 Topics in Anthropology: Anthropology and Business
3 credit(s), max credits 6;
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

ANTH 5990 Topics in Archaeology: Advanced Heritage Management
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
prereq instr consent;
Instructor: Anfinson, Scott F
Description: Student may contact the instructor or department for information.

ANTH 5990 Topics in Archaeology: Primate Evolution
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
prereq instr consent;
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

ANTH 5990 Topics in Archaeology: Ceramic Analysis
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
prereq instr consent;
Instructor: Hayes, Katherine F. H.
Description: Ceramic analysis: methods of analysis for archaeological ceramics. Includes approaches to all stages of pottery production (raw material procurement, processing, building, decorative elements, and firing); analysis of vessel form and function; quantitative methods; and application of these analyses to social archaeological questions. Students will learn through both reading/discussion of case studies and hands-on techniques. Learning will be synthesized through project involving the analysis of a ceramic collection.
Style: 50% Lecture, 30% Discussion, 20% Laboratory.
Grading: 20% mid exam, 20% final exam, 20% special projects, 20% class participation, 20% laboratory evaluation.

ANTH 8002 Ethnography: Contemporary Theory and Practice
A-F only, 5 credit(s);
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

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

ANTH 8510 Topics in Archaeology
3-9 credit(s), max credits 9, 3 completions allowed;
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

ANTH 8810 Topics in Sociocultural Anthropology: Language and Modernity
3-9 credit(s), max credits 9, 3 completions allowed;
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

ANTH 8810 Topics in Sociocultural Anthropology: Anthropology and Business
3-9 credit(s), max credits 9, 3 completions allowed;
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Applied Business
20 Classroom Office Building

ABUS 3301 Introduction to Quality Management
A-F only, 3 credit(s); prereq Introductory statistics;
Instructor: Martens, Scott L
Description: Principles and concepts of managing quality in the context of business applications. Emphasizes improvement of business processes with six sigma process improvement methodology. Includes strategy for implementing and leading process improvement, Baldrige Award, ISO 9000, process control, performance measurement systems and Six Sigma.
Style: 100% Web Based.

ABUS 4022 Management in Organizations
A-F only, 3 credit(s); prereq 45 cr completed;
Instructor: Haarklau, Eron A
Description: This fully online section is offered through Online and Distance Learning, College of the Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course brings together key elements from the practical (on the job), the theoretical (in the classroom), and the personal (self-assessment) to facilitate a better understanding of management as a profession. By the conclusion of this course, you will have learned to: --compare and contrast theoretical and practical thinking on professional management, and apply this knowledge to current practice; --describe and apply the characteristics of a strong manager in a high-performance organization; --explain and illustrate how planning, organizing, leading, and controlling are accomplished in a specific industry or organization; and --assess your own aptitude, interest, and knowledge for entering the management profession.
Style: 100% Web Based.
Grading: Grading is A-F only. Your grade is based on: --"question of the week" discussion postings and responses (4%) --3 online quizzes (48%) --2 applied management research papers (32%) --1 personal assessment and reflection paper (18%)

ABUS 4023W Communicating for Results
A-F only, 3 credit(s); prereq 45 cr completed; Meets CLE req of Writing Intensive;
Instructor: Schoelder, Esq. Lee
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. In this course, you will learn to: --systematically analyze the readers (audiences) of your reports and categorize them into primary, secondary, or immediate audiences. --design and write a purpose statement and management summary that clarify the purpose of your reports. --design, write, and edit a variety of informative reports to meet your readers' needs. --design, write, and edit persuasive reports to meet your readers' needs. --construct arguments of fact and arguments of policy and incorporate them into your persuasive reports. --follow a systematic procedure for contextually editing your writing. --identify the types of segments and units in the discussion components of your reports.
Style: 100% Web Based.
Grading: See downloadable syllabus for complete grading.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ABUS 4031 Strategic Use of Business Information Systems
A-F only, 3 credit(s); prereq Basic proficiency with 'office' software, 45 cr;
Instructor: Swanson, Trisha Katherine
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fee and financial aid restrictions. Examine the relationship of information systems and decision making. Topics include: databases, decision management tools, customer relationship management, e-business, emerging trends, and information security. Hands-on assignments include database and web page development, case studies and a final empirical project.
Style: 100% Web Based.
Grading: self-introduction (2%) - 4 exercises (40%) - 12 online discussions (24%) - 10 weekly wrap-ups (5%) - 8 building block exercises (4%) - 1 final project (25%)

ABUS 4041 Dynamics of Leadership
A-F only, 3 credit(s); prereq 45 cr completed;
Instructor: Kaiser, David
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fee and financial aid restrictions. In this course, your learning about leadership will occur in two ways: --learning about and understanding leadership strategies, values, characteristics, and styles (the context) --analyzing your own perspectives and beliefs about leadership (your interpretation of the context) This course will give you the knowledge and understanding of the qualities and skills necessary to become a leader within various contexts. It will assist you in working in various organizational environments and understanding the impact of globalization and diversity on achieving organizational directives.
Style: 100% Web Based.
Grading: self-introduction: 2% --weekly group discussions: 26% --group project: 12% --3 self-selected learning assignments: 60%

ABUS 4101 Cost Accounting, Analysis, and Control in Organizations
A-F only, 3 credit(s); prereq Financial accounting, 45 cr completed;
Instructor: Vickman, Thomas M
Description: This fully online course is offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fee and financial aid information. This course is aimed at those who are interested in gaining practical knowledge of the major finance and managerial accounting issues facing organizations today. At the conclusion of this course, you should be able to: - distinguish between various management cost terms and concepts; - identify and understand quality costs and quality programs; - analyze costing activities to help improve an organization's work flow; - understand how fixed and variable costs behave; - calculate the effects of changes in selling prices, costs, sales mix, and volume on profitability; - prepare various types of budgets; - calculate standard cost variances and determine what they mean; - apply decision techniques to determine whether to retain or discontinue a product; make, lease, or buy a part; accept or refuse an order; expand, shut down, or eliminate a facility or product line; - apply time value of money concepts to determine present and future value; - evaluate capital expenditure proposals; - use an organization's financial statements to detect its strengths and weaknesses and assess its future prospects.
Style: 100% Web Based.
Grading: 30% special projects, 10% quizzes, self-introduction and test submission (2%) - 9 online discussions (18%) - 10 problem sets (40%)

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

ABUS 4509 New Product Development
A-F only, 3 credit(s); prereq [[4103 or 4701 or Mktg 3001], at least 45 cr] or instr consent;
Instructor: Flanders, Gordon R
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fee and financial aid information. This course will focus on the sequence of events that starts with the original idea for a new product or service and ends with the commercialization of the final product. The emphasis will be on a marketing perspective. Over 84 percent of new products fail within the first two years of commercialization, primarily due a lack of differentiation from what's already available and a poorly organized launch plan. The course will focus on the stages of development that each new product must pass through, and the activities that each functional area of the firm (i.e., R&D, manufacturing, finance, marketing, operations, customer service, sales, etc.) must perform in order to produce a successful product launch.
Style: 100% Web Based.
Grading: self-introduction (2%) - peer evaluation form (1%) - 7 exercises (7%) - group participation (results from peer evaluation form) (10%) - course project in 6 parts (60%) - 4 cases (20%)

ABUS 4701 Introduction to Marketing
A-F only, 3 credit(s); prereq [Macroeconomics or microeconomics], 45 cr;
Instructor: Aggarwal, Praveen
Description: This is a fully online section offered through Online and Distance Education (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fee and financial aid restrictions. The course begins with the 4 Ps of marketing and the marketing concept and takes you through the fascinating worlds of consumer behavior, market research, the marketing mix, strategic marketing, and many others. The course will introduce you to the terminology of marketing and demonstrate how marketing relates to other functional areas within an organization. The course will try to expose you to the breadth, rather than depth in any one particular area, of marketing. A discussion of the international scope of marketing and ethics in business will also be integrated into the course at every stage.
Style: 100% Web Based.
Exam Format: Supervised, in-person (not online), comprehensive final exam

Applied Economics
231 Classroom Office Building

APEC 1101 Principles of Microeconomics
3 credit(s); Credit will not be granted if credit has been received for: ECON 1101; Meets CLE req of Social Science Core;
Instructor: Liu, Donald J.
Description: Economics is the study of choices made under conditions of scarcity and is divided into two major subject matter areas: micro and macro economics. This course, Principles of Microeconomics, is concerned mainly with the economic decisions of individual consumers and producers and how they interact under various market and regulatory environments. The major emphasis in the course will be on economic concepts and their applications to current economic issues and day-to-day business operations.
Style: 80% Lecture. 40% Discussion.
Grading: 25% mid exam, 25% final exam, 15% quizzes, 25%
APEC 1102 Principles of Macroeconomics
3 credit(s); prereq 1101 or Econ 1101 no credit will be granted if credit has been received for: Econ 1102 or Econ 1105.; Credit will not be granted if credit has been received for: ECON 1102; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; Instructor: Parliament, Claudia A
Description: Economics, the study of choices made under conditions of scarcity, is divided into two major areas: micro and macro economics. This course, Principles of Macroeconomics, is concerned with the behavior of entire economies. The course will focus on the aggregate concepts of economic growth, gross domestic product, unemployment, and inflation. The course will also cover the role of the Federal Reserve Bank and the banking system in creating the money supply and influencing interest rates. Budget deficits and the national debt will be discussed. The strengths and weaknesses of using fiscal and/or monetary policy to influence economic growth and stability will be examined. Time permitting, exchange rates and trade deficits will be covered. The course will emphasize the application of macroeconomic concepts to current economic issues.
Style: 60% Lecture, 40% Discussion.
Grading: 30% mid exam, 25% final exam, 15% reports/papers, 15% quizzes, 15% problem solving.
Exam Format: multiple choice, short answer, graphs

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

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

APEC 3002 Applied Microeconomics: Managerial Economics
4 credit(s); prereq [[3001 or ECON 3101], [OMS 2550 or STAT 3011]] or inst conjr credit; Instructor: King, Robert P
Description: This course focuses on the application of microeconomic theory to managerial problems. Lectures, readings, problem sets, lab sessions, case studies, and discussions integrate theory and applications. Topics include: an introduction to regression analysis, demand analysis and demand function estimation, cost function estimation, resource allocation decisions, linear programming, market structure, pricing policy, risk analysis, and capital budgeting. This course is the second in a sequence that begins with ApEc 3001.

APEC 3006 Applied Macroeconomics: Government and the Economy
3 credit(s); prereq [[1102 or Econ 1102], [3001 or Econ 3101]] or inst conjr credit; 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: Professional selling of agricultural and food products. Building and refining sales abilities, identifying and qualifying prospects, delivering effective sales presentations and closing the sale, utilizing principles of market research including market segmentation methods. The class will involve explorations of careers in sales via guest speakers and other audiovisual aids. Students will develop and deliver a professional sales presentation.
Style: 80% Lecture, 20% Discussion.
Grading: 15% mid exam, 20% final exam, 50% special projects, 15% laboratory evaluation.
Exam Format: Essay

APEC 3611 Environmental and Natural Resource Economics
APEC 3811 Principles of Farm Management
3 credit(s); prereq 1101 or Econ 1101; Meets CLE req of Environment Theme;
Instructor: Homans, Frances Reed
Description: Student may contact the instructor or department for information.

APEC 3811 Principles of Farm Management
3 credit(s); prereq 1101 or Econ 1101;
Instructor: Olson, Kent D
Description: Strategic and operations aspects of farm management; budgeting; production and operations planning; quality management and control; financial analysis and management; investment analysis; land purchase and rental; risk management; contract evaluation; and staffing and organization. Students completing the course will be able to: 1) Define the terms and concepts commonly used in farm management; 2) Apply methods to identify issues and analyze strategic options for farms; 3) Apply operations management techniques within a systems perspective of other parts of the farm, and the uncertain economic, climatic, and biological environments in which farms operate; 4) Apply knowledge obtained in previous courses to farm management problems; and 5) Strengthen skills in teamwork, problem solving, interviewing, speaking, and report writing. The target audience is primarily undergraduates in an agricultural major, although graduate students in agricultural fields may benefit from this course as well.
Style: 50% Lecture, 50% Discussion.
Grading: 30% mid exam, 35% final exam, 40% problem solving.
Exam Format: Short answer, short essay, multiple choice, problems.

APEC 3821 Retail Center Management
3 credit(s); prereq [1101 or Econ 1101], [1251 or Acct 2050];
Instructor: Nefske, 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 campus.
Style: 70% Lecture, 15% Discussion, 15% Laboratory.
Grading: 20% mid exam, 35% final exam, 20% special projects, 10% laboratory evaluation, 15% problem solving.
Exam Format: Multiple choice, essay, short answer

APEC 3991 Independent Study in Applied Economics
1-6 credit(s), max credits 4, 1 completion allowed; prereq instr consent;
Instructor: STAFF
Description: Independent study and supervised reading and research on subjects and problems not covered in regularly offered courses. Coursework varies by instructor. No exams usually given.

APEC 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq CFANS undergrad, instr consent, completed internship contract;
Instructor: STAFF
Description: Professional experience in agribusiness firms or government agencies gained through supervised practical experience; evaluative reports and consultations with faculty advisors and employers.

APEC 4481 Futures and Options Markets
3 credit(s); prereq [[3001 or Econ 3101], [AnSc 2211 or OMS 1550 or Stat 3011], 60 cr] or instr consent; Credit will not be granted if credit has been received for: APEC 5481;
Instructor: Usset, Edward Charles
Description: Student may contact the instructor or department for information.

APEC 4501 Financial Modeling
A-F only, 3 credit(s); prereq [3001 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 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 or instructor consent.
Style: 50% Lecture, 40% Laboratory, 5% Student Presentation, 5% Guest Speakers.

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

**Style:** 80% Lecture, 20% Discussion.

**Grading:** 45% mid exam, 45% final exam, 10% problem solving.

**Exam Format:** Essay

### APEC 5321 Regional Economic Analysis

3 credit(s); prereq 3006 or ECON 3102 or instr consent

**Instructor:** Mykerezi, Elton

**Description:**

- **Style:** 70% Lecture, 25% Discussion, 5% Student Presentation.
- **Grading:** 25% mid exam, 35% final exam, 30% reports/papers, 10% in-class presentation.

### APEC 5341 Public Finance

A-F only, 3 credit(s); prereq 3001 or Econ 3101 or PA 5021;

**Instructor:** Kalamkodis, Laura T.

**Description:**

- **Style:** The most efficient way to provide goods and services is through private markets, why are goods and services ever provided by governments? When government provision of services is advisable, which level of government (federal, state, or local) should provide them? Which level of government should pay for those services? With which revenue sources should public expenditures be funded? Which types of taxes should be levied and on whom? What is the likely impact of changes in tax policy? This course will examine these questions by applying economic theory to current examples and issues facing federal, state or provincial, and local governments. Broadly, the course will cover: - The role of government in a market economy; - Trends and theories of public expenditure; - Trends and theories of government revenue; and - Tax policy.
- **Grading:** 100% Lecture.
- **Exam Format:** Midterm, Final

### APEC 5481 Futures and Options Markets

3 credit(s); prereq grad student; Credit will not be granted if credit has been received for: APEC 4481;

**Instructor:** Usset, Edward Charles

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

### APEC 5811 Cooperative Organization

3 credit(s); prereq 3001 or Econ 3101 or PA 5021 or instr consent;

**Instructor:** King, Robert P

**Description:** This course applies economic analysis to the cooperative form of organization. Producer, worker-owned, and consumer cooperatives are used to examine economic issues such as changing market organization, financing, management incentives, taxation, and antitrust regulations. Course objectives are: (1) develop an awareness of the variety of cooperative businesses in the economy, (2) understand the defining characteristics and principles of cooperative businesses, (3) understand the economic forces that determine the choice of an appropriate form of business organization for a wide range of enterprises, (4) develop skills in applying economic theory to cooperative business decisions, and (5) understand the unique challenges facing cooperative businesses. Learning activities include lectures, class discussion, case studies, and a term paper.

- **Style:** 40% Lecture, 40% Discussion, 10% Student Presentation, 10% Guest Speakers.
- **Grading:** 20% mid exam, 25% final exam, 30% reports/papers, 25% special projects. The special project is a term paper on a business of the student's choice.

**Exam Format:** Essay

### APEC 5991 Special Topics and Independent Study in Applied Economics

1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent;

**Instructor:** STAFF

**Description:** Special classes, independent study, and supervised reading and research on subjects not covered in regularly offered courses. Coursework varies by instructor. No exams usually given.

### APEC 8203 Applied Welfare Economics and Public Policy

3 credit(s); prereq calculus, intermediate econ theory;

**Instructor:** Runde, Carlisle Ford

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

### APEC 8205 Applied Game Theory

3 credit(s); prereq [8101, 8102, 8103, 8104] or [Econ 8001, Econ 8002, Econ 8003, 8004] or instr consent;

**Instructor:** Hurley, Terry

**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 completion allowed; prereq 5151 or equiv or instr consent;

**Instructor:** Homans, Frances Reed

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

### APEC 8212 Econometric Analysis II

4 credit(s); prereq 8211 or equiv or instr consent;

**Instructor:** Glewwe, Paul W

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

### APEC 8403 Demand Analysis and Household Economics

A-F only, 2 credit(s); prereq [8211, 8212, Econ 5151] or [Econ 8001, Econ 8002] or [Econ 8101, Econ 8102] or [Econ 8201, Econ 8202, Econ 8203, Econ 8204] or instr consent;

**Instructor:** Glewwe, Paul W

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

### APEC 8602 Economics of the Environment

3 credit(s); prereq Econ 8004 or Econ 8104 or instr consent;

**Instructor:** Coggins, Jay Steven

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

### APEC 8703 Microeconomic Analysis of Economic Development

A-F only, 3 credit(s); prereq Econ 8001-04 or Econ 8101-04, and ApEc 8211-8212 or instr consent. Concurrent registration is ok.;

**Instructor:** Glewwe, Paul W

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

### APEC 8801 Applied Production Theory

A-F only, 3 credit(s); prereq [Econ 8001, Econ 8002, Econ 8003] or [Econ 8101, Econ 8102, Econ 8103] or equiv or instr consent;

**Instructor:** Smith, Rodney B

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

### APEC 8802 Financial Economics

A-F only, 2 credit(s); prereq [8211, Econ 5151] or [Econ 8001, Econ 8002] or instr consent;

**Instructor:** Pederson, Glenn Darwin

**Description:** Student may contact the instructor or department for information.
ARAB 1102 Beginning Arabic II  
5 credit(s); prereq 1101 or equiv or instr consent; Credit will not be granted if credit has been received for: ARAB 4102; Instructor: Khalek, Hisham A  
Description: Arabic 1102 is the second in a sequence of courses aimed at familiarizing students with reading, speaking, listening, and writing Modern Standard Arabic. The class focuses on learning five skills in language acquisition. Reading elementary level Arabic, writing simple sentences, speaking basic and compound sentences, listening and discerning introductory Arabic, and furthermore, learning basic grammar and its applicability in writing and speaking. Supplement to class instructions include practicing interactive computer drills and exercises. 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, accompanied by a DVD.  
Style: 40% Lecture, 40% Discussion. Culture.  
Grading: 20% mid exam, 20% final exam, 30% quizzes, 10% class participation, 20% other evaluation. 20% homework.  
Exam Format: Multiple choice and fill in the blank.

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

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

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

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.
ARCH 3301 Drawing for Design in Architecture  3 credit(s); prereq [1301 or LA 1301 or 2301], [Arch or BED major]; Meets CLE req of Other Humanities Core; Instructor: STAFF Description: This is a follow-up course for Arch/LA 1301. It is intended to explore ways of seeing and ways of exploring concepts behind objects, buildings, and places. These explorations will include: historical and theoretical aspects of depicting architecture that may be found in paintings and architectural drawings; concepts of structure and order of form; conventional and experimental strategies for depicting space, light, and “time” (i.e. projection systems, multiple, and sequential drawings); pencil, pastels, and ink drawing techniques and skills. Though nothing will be “designed” in this course, the educational objective of this sequence of exercises is to introduce issues and develop skills which are essential for a design studio. Note: Requirements may vary depending on the instructor who teaches a particular section. Style: 10% Lecture, 20% Discussion. drawing exercises Grading: 25% class participation. 50% final portfolio; 25% final assignment Exam Format: review of drawings

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

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

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

for information.

ARCH 4122 Intermediate Arabic II  3 credit(s); prereq 4121 or equiv, grad student; Instructor: Elmeski,Mohammed Description: Student may contact the instructor or department for information.

ARCH 5102 Advanced Arabic II  3 credit(s), max credits 4, 1 completion 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 prociency 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 three, by Brustad, Al-Batal, and Al-Tonsi, aided by a DVD. Style: 20% Lecture, 40% Discussion, 10% Laboratory, 20% Small Group Activities. 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.

Architecture
110 Rapson Hall

ARCH 1281 Design Fundamentals I  A-F only, 4 credit(s); Instructor: Van Duzer,Leslie Kathryn Description: Student may contact the instructor or department for information.

ARCH 2281 Design Fundamentals II  A-F only, 4 credit(s); prereq [1301 or 2301], arch major; Instructor: Sevillea,Benjamin Description: Student may contact the instructor or department for information.

ARCH 3250 Design Workshop  A-F only, 1-6 credit(s), max credits 12, 6 completions allowed; prereq 2281, [Arch BA or BDA major]; Instructor: STAFF Description: Student may contact the instructor or department for information.

ARCH 3282 Undergraduate Architecture Studio II  A-F only, 6 credit(s); prereq [3281 or 4281], BS Arch major; Instructor: STAFF Description: Student may contact the instructor or department for information.

ARCH 3301 Drawing for Design in Architecture  A-F only, 3 credit(s); prereq [1301 or LA 1301 or 2301], [Arch or BED major]; Meets CLE req of Other Humanities Core; Instructor: STAFF Description: This is a follow-up course for Arch/LA 1301. It is intended to explore ways of seeing and ways of exploring concepts behind objects, buildings, and places. These explorations will include: historical and theoretical aspects of depicting architecture that may be found in paintings and architectural drawings; concepts of structure and order of form;
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 4521 Environmental Technology I
A-F only, 3 credit(s); prereq BS Arch major;
Instructor: Mosiman, Garrett Evan
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

ARCH 5361 3-D Computer Architectural Modeling and Design
A-F only, 3 credit(s); prereq M Arch major;
Description: The class explores the use of 3D computer modeling as a tool for representation in both abstract and realistic ways. Participants will gain a good working knowledge of computer modeling software through assignments that include the creation, manipulation and arrangement of three-dimensional forms during the design of abstract environments, use of lighting as a design element, and development of surface materials as an integral part of a fully formed design. In addition the class explores ways in which computer visualization can be used throughout the design process - for design exploration, for feedback during the development of design ideas, and for realistic representation of fully formed designs. Assignments include still renderings and animations, along with research and writing components. The major assignment in this course entails creation of a detailed building model and animation which explores and presents a significant work of architecture.

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 5446 Architecture Since World War II: Postwar Experimentation: Aesthetics and Politics of Architecture
A-F only, 3 credit(s); prereq M Arch major;
Instructor: Bhatt, Ritu
Description: Student may contact the instructor or department for information.

ARCH 5450 Topics in Architectural Theory: DESIGN in EDUCATION
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
prereq Arch major or M Arch major or instr consent;
Instructor: Comazzi, John Joseph
Description: Student may contact the instructor or department for information.

ARCH 5451 Architecture: Defining the Discipline
A-F only, 4 credit(s); prereq M Arch major;
Instructor: Dittmar, Gunter A
Description: Student may contact the instructor or department for information.

ARCH 5452 Architecture: Design, Form, Order, and Meaning
ARCH 5516 Technology Two: Luminous and Thermal Design
A-F only, 6 credit(s); prereq M Arch; 
instructor: Abraham Loren

description: student may contact the instructor or department for information.

ARCH 5521 Material Investigation: Concrete
A-F only, 4 credit(s); prereq MArch or MS; 
instructor: Roe, Sharon Louise

description: student may contact the instructor or department for information.

ARCH 5539 Daylighting and Architecture Design
A-F only, 4 credit(s); prereq M Arch major; 
instructor: Guzowski, Mary M

description: student may contact the instructor or department for information.

ARCH 5550 Topics in Technology
A-F only, 4 credit(s), max credits 12, 3 completions allowed; 
instructor: Weber Jr, William G

description: student may contact the instructor or department for information.

ARCH 5550 Topics in Technology: Bio-Inspired Systems in Architecture
A-F only, 4 credit(s), max credits 12, 3 completions allowed; 
instructor: Swackhamer, Marc T

description: student may contact the instructor or department for information.

ARCH 5611 Design in the Digital Age
A-F only, 3 credit(s); prereq Grad student or upper level undergrad student; 
instructor: STAFF

description: student may contact the instructor or department for information.

ARCH 5650 Topics in Architectural Practice: Building Stories: Detail & Construction Mangement
3 credit(s), max credits 8; prereq 5621, Arch major or 5621, M Arch major or instr consent; 
instructor: Cheng, Renee

description: student may contact the instructor or department for information.

ARCH 5650 Topics in Architectural Practice: Building Stories: Global Practices
3 credit(s), max credits 8; prereq 5621, Arch major or 5621, M Arch major or instr consent; 
instructor: Cheng, Renee

description: student may contact the instructor or department for information.

ARCH 5650 Topics in Architectural Practice: Heritage Preservation Planning
1-4 credit(s), max credits 8; prereq 5621, Arch major or 5621, M Arch major or instr consent; 
instructor: Donofrio, Gregory

description: student may contact the instructor or department for information.

ARCH 5672 Historic Building Conservation
3 credit(s); prereq 3412, 5671 or instr consent; 
instructor: Mack, Robert Callan

description: this course is designed to provide an understanding of historic building materials and the recording of historic properties. topics include an examination of the historical building materials frequently encountered in historic preservation. characteristics of historic building materials and techniques for their stabilization and rehabilitation are discussed. discussions also include structural systems and building repair, building pathology, introduction of new environmental systems in historic buildings, and conservation of historic interiors. sessions concerning recording focus on the use of small- and large-format photography, preparation of measured drawings, and physical investigations of existing structures. material is presented through illustrated lectures, guest lecturers, and field trips, and "hands-on" experience. student work includes a term paper and preparation of documentation for an historic site. textbooks include "Conserving Buildings" by Martin Weaver, the "Presentation Briefs" from the National Park Service, and "Recording Historic Structures" edited by John Burns. the course should appeal to anyone interested in the technical aspects of historic preservation. students in past have come from interior design, urban studies, housing, construction trades, and art history as well as from architecture.

style: 50% lecture, 15% discussion, 35% laboratory.

grading: 35% reports/papers, 35% special projects, 20% quizzes, 10% problem solving.

exam format: essay.

ARCH 5711 Theory and Principles of Urban Design
A-F only, 3 credit(s); prereq BED major or M Arch major or LA grad major or grad student or instr consent; 
instructor: San Martin, Ignacio

description: student may contact the instructor or department for information.

ARCH 5721 Case Studies in Urban Design
A-F only, 3 credit(s); prereq 5711 or instr consent; credit will not be granted if credit has been received for: LA 5721; 
instructor: San Martin, Ignacio

description: student may contact the instructor or department for information.

ARCH 5750 Topics in Urban Design: -scape: surface, void, distance
ARTS 1001 Concepts in Visual Art
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: Concepts of visual art-making in contemporary and historical contexts. The media, environment, and concerns of the practicing artist. Creative process, visual expression, criteria. Aesthetic foundation for beginning studio courses. Visiting artists, museum and gallery visits, creative presentations. Required of all art majors.

ARTS 1101 Drawing
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: Introduction to fundamental principles and processes of drawing; exploration of various drawing media.

ARTS 1011 Painting
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: Strong, Richard B.
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: Johnson, Jay
Description: This course focuses on the energy and indoor environmental quality (IEQ) aspects of sustainable design. The course provides students with knowledge of energy and IEQ strategies, methods and analysis that can be applied in sustainable building design. Based on understanding ecological principles, students will research innovations in the areas of energy and IEQ. The course uses an integrated design approach to relate energy and IEQ to other sustainable design issues such as site, water and materials. Research projects, critical review of research literature, case studies, and analysis tools will provide students hands-on opportunities to investigate design issues and determine outcomes. The instructor, along with a number of guest speakers, is a long-time practitioner in the sustainability arena, and the course will feature real-world examples, issues, problems, opportunities, methods, and analysis.

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

ARCH 8254 Technical Applications in Design
A-F only, 4 credit(s); max credits 8; prereq [8253, MArch major] or dept consent;
Instructor: Pechaty, Victor
Description: Student may contact the instructor or department for information.

ARCH 8254 Technical Applications in Design
A-F only, 4 credit(s); max credits 8; prereq [8253, MArch major] or dept consent;
Instructor: Weeks, J Stephen
Description: Student may contact the instructor or department for information.

ARCH 8254 Technical Applications in Design
A-F only, 4 credit(s); max credits 8; prereq [8253, MArch major] or dept consent;
Instructor: James, Vincent
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: Johnson, Jay
Description: This course focuses on the energy and indoor environmental quality (IEQ) aspects of sustainable design. The course provides students with knowledge of energy and IEQ strategies, methods and analysis that can be applied in sustainable building design. Based on understanding ecological principles, students will research innovations in the areas of energy and IEQ. The course uses an integrated design approach to relate energy and IEQ to other sustainable design issues such as site, water and materials. Research projects, critical review of research literature, case studies, and analysis tools will provide students hands-on opportunities to investigate design issues and determine outcomes. The instructor, along with a number of guest speakers, is a long-time practitioner in the sustainability arena, and the course will feature real-world examples, issues, problems, opportunities, methods, and analysis.

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

ARTS 1011 Drawing
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: Introduction to fundamental principles and processes of drawing; exploration of various drawing media.

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

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

ARTS 1502 Printmaking: Relief, Screen, and Digital
4 credit(s);
Instructor: STAFF
Description: Introduction to techniques of relief (linoleum and woodcut), screenprint and digital printmaking. Historical approaches and use through contemporary materials, concepts and practices. Emphasis on the interrelationship of process, materials and ideas.

ARTS 1601 Time and Interactivity
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: This course is intended for the beginning level or non-experienced student interested in exploring new tools, technologies and processes in electronic and digital art. The class includes assignments focused on digital imaging making, digital video, digital sound, digital animation, interactive processes and basic programming languages. Students will explore the developing aesthetic and theoretical domains presented with the integration of new technologies into creative art practice. Style: 20% Lecture, 20% Discussion. 60% creative art production Grading: 10% in-class presentation, 20% class participation, 70% other evaluation. Production and critical evaluation of student art projects

ARTS 1701 Photography
4 credit(s); Meets CLE req of Other Humanities Core;
ARTS 1702 Digital Photography
4 credit(s);
Instructor: STAFF
Description: Introduction to conceptual, technical and historical aspects of digital photography as a creative medium using digital technology. Digital image capture, related software, digital output and studio procedures. Historical issues, contemporary practice.

ARTS 1702 Digital Photography
4 credit(s);
Instructor: Hallman, Gary L
Description: Beginning with an overview of the digital workflow ArtS 1-702 introduces conceptual, technical and historical aspects of digital photography within a fine arts context. The course emphasizes photography as a creative medium and will introduce creative strategies and studio practice in the digital lab. It covers the technical process of digital photography, from camera operation and the essential techniques of image capture with camera and scanners, image management with imaging and related software, to final print output. The course offers a brief historical overview of fine art practice in conventional silver photography and its relationship to current digital technologies. Classroom discussions and required readings help development the critical skills needed to understand how photographs function aesthetically and conceptually as well as how they are used within a society and culture. The course includes presentations and discussions on contemporary practice in the medium, visits to current exhibitions and classroom visits by artists to provide an informed context for the primary course objective, an understanding of the process of art and the insights gained through the experience of producing one's own photographic work.
Style: 30% Lecture, 20% Discussion, 25% Laboratory. Creative work on location outside of class.
Grading: 5% reports/papers, 5% quizzes, 20% class participation, 30% laboratory evaluation, 40% problem solving.
Exam Format: Production of creative photographic work in response to course assignments.

ARTS 1801 Ceramics
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: Fundamentals of wheel-thrown and hand-built ceramics as forms of creative expression. Introduction to clay, glazes, and firing techniques.

ARTS 1801 Ceramics
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: Lane, Thomas J
Description: Fundamentals of wheel-thrown and hand-built ceramics as forms of creative expression. Introduction to clay, glazes, and firing techniques.

ARTS 1903 Freshman Seminar: Graphics Revolution
3 credit(s); Meets CLE req of Citizenship/Publi Ethics Theme;
Instructor: Schmidt,Jenny
Description: This seminar examines the recent trend in subversive, do-it-yourself culture. Through street graphics, rock poster screen-print studios, letterpress shops, craft fairs and comics, people find rebellion in the hand-made. We will research this community in the Twin Cities and meet with some of the local luminaries who run studios and form craft- and comics-communities. We will consider the recent history of street graphics and comics both nationally and locally. As a class, we will create a final zine, comic, or poster.

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: Woldorsky,Rochelle
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: Kuhr,Alexis
Description: Student may contact the instructor or department for information.

ARTS 3102 Intermediate Painting
4 credit(s); prereq 1001, 1101, 1102 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Lyon,Joyce
Description: Student may contact the instructor or department for information.

ARTS 3102 Intermediate Painting
4 credit(s); prereq 1001, 1101, 1102 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Baeumler,Christine Arle
Description: Student may contact the instructor or department for information.

ARTS 3105 Dimensional Painting
4 credit(s); prereq 1001, 1101, 1102 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Feinberg,David L
Description: Student may contact the instructor or department for information.

ARTS 3107 Drawing Using Digital Media as an Essential Tool
4 credit(s); prereq 1001, 1101;
Instructor: Kosmalski,Suzanne
Description: Student 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: Larson,Chris
Description: Student may contact the instructor or department for information.

ARTS 3303 Sculpture: Metalcasting
4 credit(s); prereq 1001, 1301 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: STAFF
Description: Make cast metal sculpture in the new state-of-the-art University of Minnesota Sculpture Foundry in the new Regis Center for Art. Metalcasting of Sculpture is an intensive course where you will be asked to think creatively with cast aluminum, bronze, and iron. Prerequisites: ArtS 1301 Basic Sculpture and ArtS 1101W Concepts in Visual Arts. Required Text: "Hot Metal--A Complete Guide to the Metalcasting of Sculpture," Potratz. Available at bookstore or on reserve in Wilson Library. Slide lectures, demonstrations, critiques.
ARTS 3402 Artists' Books
4 credit(s); prereq 1001, one visual art course Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Rathermel, Jeff A
Description: Student may contact the instructor or department for information.

ARTS 3403 Women's Images and Images of Women
3 credit(s); prereq 1001 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.; Credit will not be granted if credit has been received for: ARTS 5403; Meets CLE req of Cultural Diversity Theme;
Instructor: Lock, Gudrun Jessica
Description: A seminar course; writing intensive. Focus is on work made by women from the late Renaissance to the present day. Visits to local galleries, museums and the Department of Art's visiting artist lectures are material for discussion and short reaction papers. A variety of student levels and knowledge is a plus to our conversations.

ARTS 3420 Visiting Artists Program
S-N only, 1 credit(s), max credits 2;
Instructor: Montgomery, Lindsay Sara
Description: Student may contact the instructor or department for information.

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

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

ARTS 3499 Internship at Katherine E. Nash Gallery
S-N only, 3 credit(s); prereq 1001, instr consent;
Instructor: Shank, Nicholas Bowers
Description: ARTS 3499 INTERNSHIP AT THE KATHERINE E. NASH GALLERY Fall Semester, Spring Semester & Summer Session If you are interested in registering for the internship program, please see Nick Shank in Room 112. You can also contact him at (612) 624-6518; e-mail at shankn001@umn.edu The internship at the Nash Gallery is limited to 12 undergraduate students. Grading basis/credits: S-N only, 3 credit(s).
Prerequisites: 1001, instructor consent This GREAT "hands-on" internship experience involves: 1) the installation and de-installation of exhibitions in the Nash Gallery 2) experience working with local, national and international artists/curators 3) an introduction to gallery practices 4) learning how to present your work 5) staffing Nash Gallery receptions Please note: Because most of the work is done on weekends, the internship doesn't interfere with other classes. To enroll in the internship program, you must have an interview with Nick Shank at the conclusion of which you will be given a permission number. You must use this permission number when you register for the course.

ARTS 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 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: Lukkas, Lynn Tjerman
Description: This course is targeted toward undergraduate art majors and non-majors alike interested in exploring electronic filmmaking and video production; no previous experience required. With an emphasis on narrative forms the course will explore live-action, documentary, experimental and non-traditional narrative formats. Students will gain direct experience with all aspects of electronic film and video production, including screenplay development, pre-production, production, and post production. Theoretical readings, development of critical and aesthetic criteria in the analysis of electronic film and video art.
Style: 10% Lecture, 20% Discussion. This class is focused on the development of students creative and aesthetic expression in electronic film and video production. The majority of class time in spent in production, editing, critiques, lectures and demonstrations.
Grading: 30% class participation, 70% other evaluation. art projects, 30% participation in critiques and class, 15% paper or presentation
Exam Format: critique of assigned art projects

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

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

ARTS 3802 Ceramics: Handbuilding
4 credit(s), max credits 8; prereq 1001, 1801 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Bohls,Margaret
Description: Ceramics 3802 is an intermediate level class that builds on the foundation provided by the 1801 class. It is designed to teach you the aesthetic and technical skills needed to create sculptural work from ceramic materials. We may also do some exploration into hand-built functional pots. This course will involve lots of creative brainstorming and lots of sketching. In this class, students can expect to work with earthenware clay and glazes. There will be at least one assignment that involves mixing and testing a range of earthenware glazes. There will be some reading assignments and there will also be at least one research assignment to be presented in a written form or in the form of a class presentation. By the end of the semester students are expected to know how to fire both gas and electric kilns to earthenware temperatures. In addition to expanding your knowledge of the technical processes involved in making ceramic objects, this class is intended to give you a greater ability to look at, understand and discuss those objects. Discussion in the form of critiques is an important part of this class. Critiques are an opportunity for constructive criticism, discussion of ideas and brainstorming. Students are expected to be aware of the development of their own critical skills. There will be about four projects assigned for the semester. These will cover a variety of sculptural themes related to the field of contemporary ceramics. These assignments, while not limited to specific building methods, will be accompanied by demonstrations and lectures on building and glazing methods that seem appropriate to the assignment. They will also be accompanied by slide lectures of related contemporary and historic ceramic work. In order to successfully complete all of the given assignments, students should expect to spend at least eight hours each week in the studio outside of the 8 hours of class time. There will be several lectures on the technical aspects of clay, glazes and firing methods. Students will be tested on this information during the final exam period.

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

ARTS 5107 Advanced Drawing Using Digital Media
4 credit(s); prereq 3107 or instr consent ; 
Instructor: Kosmalski,Suzanne 
Description: Student may contact the instructor or department for information.

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

ARTS 5120 Advanced Painting
4 credit(s), max credits 12, 4 completions 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 5320 Advanced Sculpture: Spatial Problems
4 credit(s), max credits 12, 4 completions allowed; prereq 3302 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Larson,Chris
Description: Student may contact the instructor or department for information.

ARTS 5330 Advanced Sculpture: Metal Casting
4 credit(s), max credits 12, 4 completions allowed; prereq 3303 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Linden,Paul
Description: Student may contact the instructor or department for information.

ARTS 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: Kataliafas,Diane
Description: In this seminar we will consider and explore some of the ephemeral and practical aspects of being an artist today. Weekly we will discuss topics from an inventory of "big issues" in art today. How do these affect us? What role do they have in our creative process? These will be correlated with meetings/discussions with members of the local Arts Community, sometimes in field trips to their environments; with the Visiting Artist program; correlative readings/bi-weekly exercises; group discussions/critiques; final presentations. One of the objects is to develop and practice the use of coherent, constructive, critical language for considering visual art. A starting point for this dialogue will be to consider cognitive and generative processes for the making of art and how might these be expanded. What might criteria be for evaluation of an art focusing on content which is subjective? Does this differ if the content is objective or "formal"? Every week you will be responsible for readings. Based on the readings, you will prepare a 3 minute presentation which addresses the topic/reading under consideration. Your format/medium should be appropriate to the issue and to yourself. This could include both written and visual text. View these "synopses presentations" as experimental exercises. We will attempt in the discussion to develop criteria for constructive assessment of your efforts.

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

ARTS 5403 Women’s Images and Images of Women
3 credit(s); prereq 1001 or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Lock,Gudrun Jessica
Description: Credit will not be granted if credit has been received for: ARTS 3403; Meets CLE req of Cultural Diversity Theme;
Description: A seminar course; writing intensive. Focus is on work made by women from the late Renaissance to the present day. Visits to local galleries, museums and the Department of Art's visiting artist lectures are material for discussion and short reaction papers. A variety of student levels and knowledge is a plus to our conversations.

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

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

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

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

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

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

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

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

ARTS 5490 Workshop in Art: The New York Contemporary Art World
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Stanislav, Andrea
Description: Spring Semester 2010 The NYC Contemporary Art World May Term 2010 Field Study + Studio in New York City
Professor: Andrea Stanislav 7 credits Spring semester, Regis Center for Art (Jan. 19 - May 7) May term field study in New York City (May 24 - June 11) Maximum class size 20 Prerequisite: advanced undergraduate students and graduate students in any media or discipline (or by permission of instructor) Course Description and Objective: Students will research self-directed topics on the NYC art world, prepare and critique professional practices. A focus will be on questioning and addressing the current shifts in the contemporary art world, through readings, class discussion and guest speakers in the spring semester. Students experience first hand the practices and concepts of one of the world's most important contemporary art centers + a class project session at Mildred's Lane Class will meet during Spring Semester to research and prepare for the three week May term trip to NYC. Students will be expected to research, explore and engage the NYC contemporary art world through gallery and museum visits, meetings with curators, critics, gallery directors, and artists studio visits. The NYCAMS seminar and studio space will be provided in NYC to serve as students' studios -- and the exhibition space for student's final, cumulative seminar projects. Student housing located in Manhattan (walking distance to studios) Course fee TBA soon NYCAM studio space in New York City: http://nycams.bethel.edu/ Mildred's Lane class project
ARTS 5510 Advanced Photography
4 credit(s), max credits 12, 3 completions 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 course offers 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 5620 Narrative Digital Video
4 credit(s), max credits 12, 3 completions allowed; prereq
3602 Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Lukkas.Lynn Tjernan
Description: This course is targeted toward undergraduate art majors and non-majors alike interested in exploring advanced electronic filmmaking and video production; previous experience with film/video production or film/video theory required. With an emphasis on narrative forms the course will explore live-action, documentary, experimental and non-traditional narrative formats. Students will expand and further develop experience with all aspects of electronic film and video production, including screenplay development, pre-production, production, and post production. Theoretical readings, development of critical and aesthetic criteria in the analysis of electronic film and video art. Lectures and presentations of historical and contemporary artists and filmmakers will be included. The course meets concurrently with ArtS3602 - Time Arts Video yet contains advanced critical analysis and discussion of students creative work.

ARTS 5640 Advanced Animation
4 credit(s), max credits 12, 3 completions 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 5710 Advanced Photography
4 credit(s), max credits 12, 3 completions 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: Advanced Photography: The Social Impact of Art, Imagining Different Worlds, co-taught by Jan Estep and Minna Rainio, is a topics-based section of advanced photography but we welcome advanced undergraduate and graduate students working in any media or discipline. During this class we will explore the different ways that artists, especially photographers and video artists, have engaged with social issues through their work. We will ask what kind of impact art can have in society: how through art we can see the world from new and challenging angles and imagine different and even better worlds. Throughout our discussions, we will continually return to the question of the social impact of art: what does art do? During the semester we will - Look at issues of photography in relation to war, trauma, and empathy - Discuss the relationship between image and language, sound and voice - Look at how the personal can be political through artworks that share personal experiences - Explore connections between body and knowledge and look at the way art can be a bodily experience - Consider how social practices that link artists to specific communities (relational aesthetics, participatory art) - Investigate an expanded notion of activist art. The class is linked to the exhibition Almost (there) at the Nash Gallery during January and February 2010 showing videography and photography by contemporary international artists. During the spring semester exhibiting artists will visit Minneapolis, give talks, and attend the class. Artists will also do studio critiques with students enrolled in our class. Visiting artists are: Katarina Zdjelar (Serbia/Netherlands), Adel Abidin (Iraq/Finland), Andres Jaschek (Argentina/France), Maria Ylikoski (Finland), and Jaasko Heikila (Finland). Professor Gary Hallman will be teaching a second section of Advanced Photography on Tuesday-Thursday mornings for students who want to focus more specifically on their photographic portfolio.

ARTS 5810 Advanced Ceramics
4 credit(s), max credits 12, 3 completions allowed; prereq
[3801, 3802, 3810] or instr consent Note: Students without stated prerequisites will not be allowed to continue in this course.;
Instructor: Bohls,Margaret
Description: This course is intended to teach students about the materials used to make ceramic artwork. The information covered in this course is necessary to the operation of a ceramics studio. It is intended for students who have already taken at least two ceramics studio classes and intend to continue working in clay. This course may not be appropriate for students who do not have a serious interest in ceramics as a profession or vocation. The course will cover glaze materials and the formulation of ceramic glazes and the simple chemistry needed to understand these materials and processes. It will also cover clay materials and clay bodies as well as slips, engobes, terra sigillatas, and vitreous slips. Also included in this course are the toxicology of ceramic chemicals, and briefly, the firing process. Images of historic and contemporary ceramic art will be included to contextualize the technical information. The course will be divided into lectures and labs. Lectures will be given during the first hour to hour and a half of each class period. Lab results will be due every two weeks or so. Students will be quizzed often on lectures and readings and there will be at least two exams given, one at mid-term, one as a final. Students will also be asked to do research using the library and the internet as resources. Labs and research may be assigned to individuals, pairs of students or to small groups. Students may be asked to work collaboratively on some projects. Students will be asked to present their research findings and lab results to the class. Most labs will involve creating and firing tests of clay or glazes. Each student...
should be prepared to participate in firing class kilns. Students will be asked to keep a binder of all class information. This will become their "studio notebook" for future use. Each student is encouraged to direct their research, as much as possible, toward their own particular aesthetic goals by focusing on clay bodies and glazes appropriate to their own artwork.

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

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

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

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

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

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

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

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

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

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

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

ARTS 8300 Sculpture: Theory and Analysis
3 credit(s), max credits 6;
Instructor: Larson, Chris
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: 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: Kuhr, Alexis
Description: Student may contact the instructor or department for information.

ARTS 8500 Printmaking: Theory and Practice
3 credit(s), max credits 12, 4 completions 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 completions allowed;
Instructor: Momeni, Ali
Description: Student may contact the instructor or department for information.

ARTS 8700 Photography: Theory and Practice
3 credit(s), max credits 12, 4 completions 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 completions 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 completions 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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor consent;
Instructor: Lukkas, Lynn
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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor 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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor 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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor 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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor 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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor 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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor 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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor 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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor 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 completions allowed; prerequisite: Art MFA candidate, passed oral/written prelim, instructor 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 completions 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 completions 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 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Krepps, 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 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Kuhr, Alexis
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 completions 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 completions 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 completions 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 completions allowed; prereq Art MFA candidate, passed oral/written prelim, instr consent;
Instructor: Stanislaw, 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 completions 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 completions 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); meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Eliason, Lois Munemitsu
Description: Student may contact the instructor or department for information.

ARTH 1907W Freshman Seminar: Harlem Renaissance
3 credit(s); prereq F or fewer than 30 cr; meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: Marshall, Jennifer Jane
Description: The Harlem Renaissance is well-known for its music and literature. Duke Ellington and Langston Hughes are heroes of Black History Month every February. But what did the Harlem Renaissance look like? Musicians performed in luxurious Art Deco interiors, writers published their work in richly illustrated magazines, and everyone took their hair, wardrobes, and public promenades very seriously. This seminar will examine the visual side of the Harlem Renaissance, especially as it was represented by painters, illustrators, sculptors, and photographers. Beginning with the idea that American racial identity depends heavily upon vision and representation, we will ask how African-Americans in the 1920s and 30s tried to reclaim the visual field, for the purpose of racial redefinition.

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

ARTH 3008 History of Ancient Art
4 credit(s); Credit will not be granted if credit has been received for: CNES 3008; meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Cooper, Frederick A
Description: The purpose of this course is to offer an introduction to the visual arts of those ancient cultures which contributed to the development of western civilization: namely, Egyptian, Babylonian, Assyrian, Phoenician, Aegean, Etruscan, Roman, and Early Christian/Byzantine. The lectures will focus on a selection of important works, but will include discussions of appreciation and style as well as the larger social, religious and visual ideas of early cultures. The requirements of the course are geared for students with no previous experience or study in this discipline.
Style: 80% Lecture, 10% Discussion, 10% Field Trips. review sessions; museum discussion

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ARTH 3013 Introduction to East Asian Art
3 credit(s); Credit will not be granted if credit has been received for: EAS 3013;
Instructor: Poor, Robert John
Description: This course will examine a representative selection of the art produced in China, Korea and Japan from the Neolithic era down to Modern times. Art of every type and style, such as ancient jades and ritual bronze vessels, Buddhist sculpture and temple architecture, landscape paintings and gardens, and popular paintings and prints is included. We will employ archaeological and art historical techniques to situate these objects in their cultural 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

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

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: McNally, Sheila J
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 study 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, J.B
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/ Publi 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, sex, 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 3422 Off the Wall: History of Graphic Arts in Europe and America in the Modern Age
4 credit(s);
Instructor: Weisberg, Gabriel
Description: An examination of all the pertinent graphic arts movements from the end of the eighteenth century to 1980. Special emphasis is placed on the social context of each tendency, the political ramifications of a given artist's stance, and the ways in which the graphic arts reflected and responded to societal implications. The course examines caricature, political satire, the emergence of new print techniques (eg, color lithography), the value of the poster as an advertising medium and design issues in the 20th century. Audience: all interested undergraduates from all humanities disciplines. Textbooks: Linda C. Hufts, &quot;The Print in the Western World An Introductory History." Madison, WI: University of Wisconsin Press, 1996 and Robert Goldstein, "Censorship in Political Caricature in Nineteenth Century France," Kent State University Press, 1989.
ARTH 3993 Directed Study
A-F only, 1-4 credit(s), max credits 12, 3 completions 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 completions allowed; prereq instr consent;
Instructor: Blocker, Jane M
Description: Student may contact the instructor or department for information.

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

ARTH 3993 Directed Study
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed; prereq instr consent;
Instructor: Cooper, Frederick A
Description: This is an opportunity to master basic skills that range across disciplines: the humanities, civil engineering and surveying, and natural and physical sciences. The Practicum serves as a pre-requisite for participation in one of several U of M projects in Greece or Minnesota and open to undergraduate and graduate students. Also appropriate training for other excavations. Prior to fieldwork assignments are handbooks on archaeology and professional surveying. Readings are put into practice First half of semester, the class meetings are 3 hours on Friday afternoon; the dig begins with spring at a local site and runs all day on Saturday.
Style: 10% Discussion, 20% Laboratory. Field practice
Grading: 40% class participation, 40% laboratory evaluation, 20% other evaluation. Notebook

ARTH 5422 Off the Wall: History of Graphic Arts in Europe and America in the Modern Age
4 credit(s);
Instructor: Weisberg, Gabriel
Description: ARTH 5422 is the same general course as 3422. Graduate students can enroll under this number with permission of the professor; the same applies for advanced undergraduate students. The only difference in requirements for the course is a research paper in addition to the exams.
Style: 90% Lecture, 10% Discussion.
Grading: 25% mid exam, 45% final exam, 30% reports/papers.
Exam Format: slide exam

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, leisure and popular amusements, 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%. Grading instruments and requirements may be revised prior to the beginning of the semester; those listed are for the previous offering of the course.

**Exam Format:** Essay

**ARTH 5766 Chinese Painting**

3 credit(s);

**Instructor:** Poor, Robert John

**Description:** The seven thousand year plus tradition of Chinese painting falls readily into broad categories; the ancient art of the Neolithic Era and the early dynasties represented by tomb art, the art of medieval period which saw the rise of secular painting and Buddhist religious art, the great cycles of classical landscape painting that dominated the art of the later the later dynasties and finally, the radically modern art of the last several decades. We will look at representative examples of each tradition paying special attention to the classical art movements and to those artists and styles whose works we may encounter in field trips to local museums or private collections. We will employ both traditional and more innovative art historical techniques to situate these objects in their cultural settings while underlining the character of each painting as a unique work of art. This course will be web enhanced and the student will have access to the extensive database of our visual resource center. Intended for advanced undergraduates and graduate students. No previous courses in art history are required.

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

**Grading:** 25% mid exam, 65% reports/papers, 10% class participation.

**Exam Format:** research essay

**ARTH 5775 Formation of Indian Art: 2500 BCE to 300 CE**

3 credit(s);

**Instructor:** Asher, Frederick M

**Description:** The course, which assumes no prior knowledge of either India or art history, examines the history of Indian art from earliest times, about 2500 BCE, to the end of the fourth century. This is the period when India's largest empires were established, when the earliest Buddhist narrative relief was introduced, and when the Buddha image (which became a model for Buddhist art across Asia) was first produced. Through lectures and readings, the course will examine critically these issues and others that impact the study of early Indian art. It will, further, examine and critique the study of early Indian art itself.

**Style:** 65% Lecture, 35% Discussion.

**Grading:** 25% mid exam, 30% final exam, 35% reports/papers, 10% laboratory evaluation.

**Exam Format:** short 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 class Moodle web site.

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 88% reports/papers, 12% class participation.

**Exam Format:** take home essays

**ARTH 5950 Topics: Art History: Art and Religion in the Later Roman World**

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

**Instructor:** Mc Nally, Sheila J

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

**ARTH 5993 Directed Study**

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

**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 completions allowed; prereq instr consent;

**Instructor:** Cooper, Frederick A

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

**ARTH 5993 Directed Study**

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

**Instructor:** Poor, Robert John

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

**ARTH 5993 Directed Study**

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

**Instructor:** Mc Nally, Sheila J

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

**ARTH 5993 Directed Study**

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

**Instructor:** Weisberg, Gabriel

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

**ARTH 5993 Directed Study**

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

**Instructor:** Asher, Frederick M

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

**ARTH 5993 Directed Study**

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

**Instructor:** Silberman, Robert B

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

**ARTH 5993 Directed Study**

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

**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 completions allowed; prereq instr consent;
Instructor: Gaudio,Michael P
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 completions allowed; prereq instr consent;
Instructor: Ostrow,Steven F
Description: Student may contact the instructor or department for information.

**ARTH 8950 Seminar: Issues in the History of Art:**
Contemporary Art and Theory: Middle East and India
3 credit(s), max credits 12, 4 completions allowed; prereq 3 cr art history, instr consent;
Instructor: Asher,Catherine B
Description: This seminar will examine contemporary artistic production in the 7greater Middle East? and in South Asia. We will become familiar with art by artists working in a number of countries in the Middle East and also in West Asian (India, Pakistan, Afghanistan and Bangladesh) and also by artists originally from these regions working in various diasporas in the United States and Western Europe. A number of specific 20th and 21st century exhibitions in the West of art from these regions will be critically examined, with an eye to analyzing how contemporary political landscapes have influenced western reception of this art, and shaped the vocabulary critics use to discuss it. Through selected readings on Orientalism, negritude, subaltern studies, political science, and the global reception of Middle Eastern cultural production, we will develop our own vocabulary with which to discuss these art practices in their thematic, cultural, and formal specificity. Students will be expected to take responsibility for running a seminar session on a particular theme which presents the work of artists from various countries working with a common issue (themes could include but are not limited to Diaspora, Veiling, War, the Uncanny, Censorship, Sexuality, the Art Market, etc.).

**Asian American Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS 3270</td>
<td>Service Learning in the Asian Community</td>
<td>Lee,Juavah</td>
<td>2 credit(s), max credits 8, 4 completions allowed; prereq instr consent</td>
<td>Lee,Juavah</td>
</tr>
<tr>
<td>AAS 3877</td>
<td>Asian American History, 1850 to Present</td>
<td>Lee,Erika</td>
<td>3 credit(s); meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core</td>
<td>Lee,Erika</td>
</tr>
</tbody>
</table>

**Description:**
- Asian American Studies 104 Scott Hall
- AAS 3270 Service Learning in the Asian Community: 2 credit(s), max credits 8, 4 completions allowed; prereq instr consent; Instructor: Lee,Juavah
- AAS 3877 Asian American History, 1850 to Present: 3 credit(s); meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; Instructor: Lee,Erika

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
historical moments? How do states of mind such as love, community, devotion, anger, and hatred find their proper expression in diverse media? These are just some of the questions we will ask of this traditional epic or epic tradition. The seminar may especially appeal to those curious about India, religion, or media studies.

ALL 3001 Reading Asian Cultures
A-F only, 3 credit(s);
Instructor: Rouzer, Paul F
Description: Introduction to primary Asian texts in translation, with an emphasis on close reading skills and methodological rigor. Interpretative essays and articles by scholars in the field will also be introduced to some extent. Topic for Spring 2010: Concepts of the "hero" in South Asian, Chinese, and Japanese culture. How did various societies in Asia define the ethos of the "hero" and his relationship to the community? How did versions of the hero change over time, and how was the hero redefined in the context of modern nationalism? What part have traditional gender roles played in defining the hero, and is a "female" hero possible within these traditions? Specific explorations: The Ramayana in India and its re-tellings; the Chinese "knight-errant" and his evolution into the martial artist of popular culture; shifting Japanese constructions of the samurai from medieval war tales to modern literature and film.
Style: 50% Lecture, 50% Discussion.
Grading: 25% final exam, 50% reports/papers, 25% class participation.

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

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

ALL 3361W Maps, Pictures, and Writing in the Representation of Taiwan
3 credit(s); Meets CLE req of International Perspect Theme; Meets CLE req of Other Humanities Core; Meets CLE req of Writing Intensive;
Instructor: Allen,Joseph R
Description: We will consider the way the cultures of East Asia (China, Japan, and Taiwan) have shaped the cultural identity of the people on Taiwan, with special concern given to the concepts of colonialism and indigenous autonomy. We will explore how visual media (maps, pictures, photographs, and film) and written texts (travelogues, stories, and essays) are used to contribute to the representation of the people, place, and history of Taiwan, viewed in both historical and contemporary contexts. Students interested in China or Japan will be encouraged to pursue that aspect of cultural identity in Taiwan. Other areas will include: the legacy of Fukinese (Min'nan) local culture; the question of aboriginal peoples (yuanzhumin) in Taiwan; the presence of American military during the cold war; and the emergence of a global culture in the late 20th century. While the focus of this course is Taiwan, we will be considering larger issues of the representations of ethnicity, culture, and national identity.

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 3372 History of Women and Family in China, 1600-2000
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: Waln,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 3441W Japanese Theater
3 credit(s); prereq credit will not be granted if credit received for: Jpn 3165W; Meets CLE req of Other Humanities Core; Meets CLE req of Writing Intensive;
Instructor: Isaka,Maki
Description: Japanese theater has been enriched with its expression in diverse media? These are just some of the questions we will ask of this traditional epic or epic tradition. The seminar may especially appeal to those curious about India, religion, or media studies.
completion of the famous trio: noh (kyogen included), the bunraku puppet theater, and kabuki (all male theater). In turn, the twentieth century saw the birth of the all-female Takarazuka revue, modern Japanese theater, butoh, and so forth. We will first take the prominent trio (noh, bunraku, and kabuki) as our focus, investigating them in various contexts: acting, script, society, etc. More important, we will examine several themes in relation to Japanese theater throughout the course: training of theater practitioners, aesthetics and philosophy, gender and gender impersonation, etc. Furthermore, we will also pay attention to their theatrical and theoretical continuity and discontinuity. This course is open to anyone with an interest. No previous knowledge of Japanese studies or theater studies is required. No reading knowledge of Japanese is required; all of the readings will be available in English. Audio-visual materials will be used whenever available and appropriate.

ALL 3671 Hinduism
3 credit(s); prerequisite will not be granted if credit already received for: SALC 3412/SALC 5412; Credit will not be granted if credit has been received for: ALL 5671; Meets CLE req of Other Humanities Core;
Instructor: Junghare, Indira Y
Description: This course is an examination of the development of Hinduism -- a complex and diverse tradition of ritual and worship, festivals and pilgrimage, asceticism and hedonism. The course will focus on sectarian trends, present-day religious practices, and the interrelationship between Hinduism and Indian social structure.
Style: 60% Lecture, 20% Discussion, films, videos and speakers
Grading: 40% mid exam, 40% final exam, 20% reports/papers.
Exam Format: multiple choice and essay

ALL 3900 Topics in Asian Literature: Modern Chinese Literature from 1918 to present
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Dooghan, Daniel M
Description: Student may contact the instructor or department for information.

ALL 3920 Topics in Asian Culture: Samurai Slashers: A Look at Japanese Period Film
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Anderson, Mark
Description: Student may contact the instructor or department for information.

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

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

ALL 4900W Major Project
A-F only, 3 credit(s); prerequisite ALL major, sr; Meets CLE req of Writing Intensive;
Instructor: Field, Jesse L
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 5671 Hinduism
3 credit(s); prerequisite will not be granted if credit already received for: SALC 3412/SALC 5412; Credit will not be granted if credit has been received for: ALL 3671;
Instructor: Junghare, Indira Y
Description: This course is an examination of the development of Hinduism -- a complex and diverse tradition of philosophies, rituals and worship, festivals and pilgrimage, asceticism and hedonism. The course will focus on sectarian trends, present-day religious practices, and the interrelationship between Hinduism and Indian social structure.
Style: 60% Lecture, 20% Discussion.
Grading: 40% mid exam, 40% final exam, 20% reports/papers.
Exam Format: multiple choice and essay
ALL 5900 Topics in Asian Literature: Sanskrit Drama
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Sawhney, Simona
Description: Student may contact the instructor or department for information.

ALL 5920 Topics in Asian Culture: Kabuki
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Isaka, Maki
Description: Kabuki, an all male theater of "song (ka)/dance (bu)/acting (ki)" that came into being in the seventeenth century, still boasts popularity in Japan. This course explores kabuki in several contexts: historical, theatrical, literary, and theoretical. It aims to historicize this performing art in its four-hundred-year dynamic trajectory against the static understanding that it is a national, high culture. No less importantly, we inquire into theoretical implications of subject matter, such as citationality, gender construction, and the like. Furthermore, this course also plans to pay attention to what is usually marginalized and overlooked in kabuki historiography: koshibai (unlicensed small troupes of kabuki); onna yakusha (women kabuki actors who mastered the acting techniques established by male kabuki actors—including the technique of female impersonation). This course is open to anyone with an interest. No previous knowledge of Japanese studies or theater studies is required. No reading knowledge of Japanese is required; all of the readings will be available in English. Audio-visual materials will be used whenever available and appropriate.

ALL 5920 Topics in Asian Culture: Capital and the Dialectic of Enlightenment
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Sahota, G.S.
Description: This course will pose fundamental questions relevant to all fields in the social sciences and humanities and to every geographical region of contemporary society and to the totality of human existence/non-existence. We will read three works in their entirety: the first volume of Capital by Marx, Dialectic of Enlightenment by Adorno and Horkheimer, and A Singular Modernity by Jameson. The central motivation for assigning these readings is to grasp the conditions by which central tenets of modernity have been upset and undermined over the course of the late twentieth and early twenty-first centuries. The central questions will be: What is value, how does it get constituted historically, and what are its valences in contemporary society? What is the status of appearance, and how did such a vast gulf come to exist between appearance and reality? Did such a gulf always exist, and if so, did it in this manner? What are the underlying assumptions, standards, and conditions of possibility for critique? What is evil today, and how does mainstream moralism relate to it? What is culture under capitalism and what are the possible futures of human existence/non-existence? These questions will be considered within spheres and contexts broader than the works we will read and special emphasis will fall on imperialism, nationalism, and postcolonial developments within the Asian world.
Style: 70% Lecture, 25% Discussion, 5% Student Presentation.
Grading: 75% reports/papers, 25% in-class presentation.

ALL 5990 Directed Study
1-4 credit(s), max credits 16, 4 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Anderson, Mark
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 completions 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 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Marran, Christine L
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 completions 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 6001 Critical Approaches to Asian Literary and Cultural Studies
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.
Astronomy
356 Tate Laboratory of Physics

AST 1001 Exploring the Universe
4 credit(s); Credit will not be granted if credit has been received for: AST 1011H; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Woodward, Paul R
Description: This course is a scientific exploration of the human place in the universe. We study the origin and history of the Universe and the formation of the Earth and the solar system. We compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. This course includes study of the properties of light and matter and the tools astronomers use to measure radiation from celestial sources. The course also covers exciting contemporary topics such as black holes, the expansion of the universe and the search for extraterrestrial life. Although largely descriptive, the course will occasionally require the use of junior-high level mathematics. Lectures are two days a week; plus each week two hours are spent in small groups working on a lab project. The course is intended for non-science majors; no science background is necessary. IT students should take AST 1011H. This evening section of AST 1001 meets concurrently with AST 1005.
Style: 50% Lecture, 10% Discussion, 40% Laboratory.
Grading: 32% mid exam, 30% final exam, 14% special projects, 24% laboratory evaluation.
Exam Format: Multiple choice and a combination of essay and/or short answer questions.

AST 1005 Descriptive Astronomy
3 credit(s); prereq non-science major; Credit will not be granted if credit has been received for: AST 1001;
Instructor: Woodward, Paul R
Description: This course is a scientific exploration of the human place in the universe. We study the origin and history of the Universe and the formation of the Earth and the solar system. We compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. This course includes study of the properties of light and matter and the tools astronomers use to measure radiation from celestial sources. The course also covers exciting contemporary topics such as black holes, the expansion of the universe and the search for extraterrestrial life. Although largely descriptive, the course will occasionally require the use of junior-high level mathematics. Lectures are two days a week. This course is intended for non-science majors; no science background is necessary. IT students should take AST 1011H. Course meets concurrently with the evening section of AST 1001.
Style: 85% Lecture, 15% Discussion.
Grading: 60% mid exam, 40% final exam.
Exam Format: Multiple choice and a combination of essay and/or short answer.

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

AST 1905 Freshman Seminar: Nothing
1-3 credit(s), max credits 3, 1 completion allowed; prereq freshman;
Instructor: Rudnick, Lawrence
Description: Nothing: 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, our beginnings as seen by theologies when even nothing was not. In our journey through the teeming vacuum, "nothing" is sacred, and will be both ventured and gained. Caution is advised, however, in telling people that you've signed up for "nothing"!
Style: 75% Discussion, 25% Student Presentation.
Grading: 40% reports/papers, 20% special projects, 20% in-class presentation, 20% class participation.
AST 2001 Introduction to Astrophysics  
4 credit(s); prereq [One yr calculus, PHYS 1302] or instr consent;  
Description: Student may contact the instructor or department for information.  
Instructor: Gehrz, Robert Douglas

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

AST 4002 Astrophysics II  
A-F only, 4 credit(s); prereq 2001, Phys 2601;  
Description: Student may contact the instructor or department for information.

AST 4299H Senior Honors Astrophysics Research Seminar  
1 credit(s), max credits 2, 1 completion allowed; prereq upper div honors student in IT or CLA, inst consent;  
Description: Student may contact the instructor or department for information.

AST 4990 Directed Studies  
1-5 credit(s), max credits 5, 1 completion allowed; prereq 2001, instr consent;  
Description: Independent, directed study in observational and theoretical astrophysics. Arrange with a faculty member.

AST 4994W Directed Research  
3-5 credit(s), max credits 5, 1 completion allowed; prereq instr consent; Meets CLE req of Writing Intensive;  
Description: Student may contact the instructor or department for information.

AST 5012 The Interstellar Medium  
4 credit(s); prereq 2001, Phys 2601 or instr consent;  
Description: Introduction to the Interstellar Medium. Subjects include radiation and excitation, 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 6200 Astrophysics Seminar  
1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;  
Description: Student may contact the instructor or department for information.

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

Biochemistry  
140 Gortner Lab of Biochemistry

BIOC 1010 Human Health and Disease  
3 credit(s);  
Description: BioC 1010 provides an introduction to the molecular basis of common human diseases. Beginning with a description of the human genome, the course introduces the fundamental concepts of cellular and molecular biology, biochemical reactions, and the biochemical underpinnings of health and disease. Topics to be presented include Inherited Diseases (cystic fibrosis, hemophilia, sickle cell anemia, muscular dystrophy), Metabolic Diseases (diabetes, cardiovascular disease, hypertension, asthma, alcoholism), and Aging (osteoporosis, menopause, Alzheimer's and other neurodegenerative diseases). Also included are the most common methods to diagnose, treat and prevent disease including discussion of gene therapy, regenerative medicine (stem cells), and traditional drug-based interventions. Several class periods will be devoted to discussions of case studies (patients with particular diseases). We will also discuss social impact of individual diseases. The goal of the course is to familiarize students with the molecular basis for different types of diseases and treatments. Student Learning Outcomes: Following successful completion of this course, each student should be capable of scholarly discussions of the following topics: the general principles of the biochemistry and the function of the various classes of biomolecules, chemical processes that occur in the human body, the molecular basis of diseases and their treatments, examples of the impact of biochemistry on today's society effectively communicate biochemical information in oral and written form. In addition, students should develop a sophisticated, portable biochemistry knowledge that they can use long after to course ends to: explain to their grandparents why their doctor recommends low dose aspirin explain to their parents how their cholesterol medication works evaluate information on a new artificial sweetener understand a new therapy for cystic fibrosis excel in upper level courses Student Expectations: As a student in this course, you are expected to take an active role in your learning. You are expected to attend every class, and to arrive on time and not leave early. You should be prepared for each lecture by reading the assigned material. You should take good lecture notes and use them to make sure you understand all of the concepts covered in class. You should ask questions in lecture to help clarify concepts. You should participate actively in the discussion sessions. You should adhere to the University of Minnesota Student Conduct Code found at http://www1.umn.edu/regs/policies/academic/Student_Conduct_Code.html

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% additional semester exams.

BIOC 2011 Biochemistry for the Agricultural and Health Sciences  
3 credit(s); prereq Chem 1011, Biol 1009; not for biology majors;  
Description: Survey of organic chemistry/biochemistry outlining structure/metabolism of biomolecules, metabolic regulation, and principles of molecular biology.  
Style: 100% Lecture.  
Grading: There are 4 exams and each exam is 25% of grade, totaling 100%

BIOC 3021 Biochemistry  
3 credit(s); prereq [BIOl 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;  
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 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 4325 Laboratory in Mass Spectrometry
S-N only, 1 credit(s), max credits 2; prereq 3021 or concurrent enrollment in 3021 or 4331 concurrent enrollment in 4331 or instructor consent;
Instructor: Laporte, David C
Description: The goal of Research Topics in Biochemistry is to expose students to a wide variety of cutting-edge research projects. The course will begin with a two-lecture introduction covering how to read scientific papers and the basic concepts of experimental design and analysis. Faculty from the BMBB Department will then give a series of presentations on cutting edge research. Each faculty member will give two presentations. The first will be a broad overview of a research area and the second will focus on a specific paper, dissecting all or part of it in detail.
Style: 50% Lecture, 25% Discussion, 25% Small Group Activities.
Grading: 50% written homework, 50% attendance.
Exam Format: No Exam

BIOC 4125 Laboratory in Molecular Biology and Biotechnology
A-F only, 3 credit(s); prereq [3021 or Biol 3021 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: Das, Anand
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 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: Adolph, Kenneth W.
Description: This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332. Text: "Principles of Biochemistry with a Human Focus", Garrett and Grisham, Harcourt College Publishers, 2001.
Style: 100% Lecture.
Grading: 75% mid exam, 25% final exam.
Exam Format: Short answer, write structures, multiple choice, solve problems, short essays

BIOC 4325 Laboratory in Mass Spectrometry
S-N only, 1 credit(s); prereq 3432, 4521;
Instructor: Nielsestuen, Gary L
Description: Students in this course will learn the theory and practice of Mass Spectrometry including sample purification and preparation, types of Mass Spec experiments and their applications, and data collection and analysis. Students will learn how Mass Spec data is used in conjunction with other experimental data to solve problems in biochemistry.
Style: 40% Lecture, 40% Laboratory, 20% Student Presentation.
Grading: The course is offered only on an S/N basis. Students will work in groups and give a presentation about their results. Successful completion of the lab exercises and presentation will constitute satisfactory work in the course.

BIOC 4331 Biochemistry I: Structure, Catalysis, and Metabolism in Biological Systems
4 credit(s); prereq [[BIOC 1002 or BIOL 1009 or BIOL 2003 or

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Eq

Schedule.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010

BIOC 4793W Directed Studies

STAFF

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: Laboratory or field investigation of selected areas of research. Writing Intensive.

BIOC 4993 Directed Studies

STAFF

S-N only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq instr consent, dept consent;

Instructor: STAFF

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

BIOC 4994 Directed Research

STAFF

S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent;

Instructor: STAFF

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

BIOC 5225 Graduate Laboratory in NMR Techniques

STAFF

A-F only, 3 credit(s); prereq 

Instructor: Ostrowski,Beverly Gau

Description: This course is intended for graduate students in biochemistry and related disciplines. Students will learn practical aspects of nuclear magnetic resonance (NMR) spectrometry and gain hands-on experience with 500 and 600 MHz instruments. Topics covered include sample preparation and handling, contamination sources, tube and probe options, experiment selection, experimental procedures, software, and data processing. Students will give a presentation of their results.

BIOC 5309 Biocatalysis and Biodegradation

STAFF

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

Instructor: Wackett,Lawrence Philip

Style: Internet

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

BIOC 5352 Biotechnology and Bioengineering for Biochemists

STAFF

A-F only, 3 credit(s); prereq 

Instructor: Schmidt-Dannert,Claudia

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

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

**BIOC 5444 Muscle**

3 credit(s); prereq Biol/BioC 3021 or 4331 or Phsl 3061 or instr consent; Credit will not be granted if credit has been received for: PHSL 5444.

**Instructor:** Thomas, David D

**Description:** Introduction to physiology, biochemical regulation, and physical chemistry of muscle contraction. Prerequisites: undergraduate 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

**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 5532 Macromolecular Crystallography II: Techniques and Applications**

S-N only, 1 credit(s); prereq 5531;

**Instructor:** Ohlendorf, Douglas Henry

**Description:** Determining the structure of macromolecules by diffraction. Using software in macromolecular crystallography.

**BIOC 6021 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:** Roon, Robert J

**Description:** This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332. 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 8084 Research and Literature Reports**

S-N only, 1 credit(s), max credits 5, 5 completions allowed; prereq Grad BMBB major or instr consent;

**Instructor:** Ohlendorf, Douglas Henry

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

**BIOC 8084 Research and Literature Reports**

S-N only, 1 credit(s), max credits 5, 5 completions allowed; prereq Grad BMBB major or instr consent;

**Instructor:** Khodursky, Arkady B

**Description:** Student may contact DGS for information

**BIOC 8184 Graduate Seminar**

S-N only, 1 credit(s), max credits 5, 5 completions allowed; prereq grad BMBB major or DGS consent;

**Instructor:** Lange, Alex John

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

**BIOC 8216 Signal Transduction and Gene Expression**

3 credit(s); prereq 8002 or instr consent;

**Instructor:** Kim, Do-Hyung

**Description:** The PHCL8216 is a graduate-level course focused on mechanisms of cellular signal transduction. This course emphasizes intensive discussion in class on focused, selected topics. This year, the theme of the course is "insulin signaling, metabolism, and aging". Except some introductory class as well as some lectures given by invited speakers, the class will discuss topics focused on the theme above. The course will have a couple of class to discuss about the basic principles of signal transduction, briefly introducing several well-characterized cell signaling pathways and important, useful experimental approaches to study signal transduction. The first two weeks will be given for lectures on general introduction on signal transduction. After that, we will discuss several specific topics on cell signaling based on literatures pertaining to the theme above. A general structure is that a lecture will be given for one day for general introduction on a specific cell signaling topic, which will be followed by discussion based on literature that will be assigned by each lecturer. Through employing this structure, the course will help expose students to basic, broad, and current knowledge on cell signaling mechanisms and their impacts on human diseases, and to experimental approaches on cell signaling studies. The course will require each student to submit a two-page concise proposal, and at the end of the course students will present their proposal. We will not have exams, and the grade will be based on the proposal, presentation, and attendance. For further inquiry, please email dhkim@umn.edu

**BIOC 8401 Ethics, Public Policy, and Careers in Molecular and Cellular Biology**

S-N only, 1 credit(s), max credits 2; prereq Grad student in [BMBB or MCDB&G];

**Instructor:** Nelsestuen, 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
3 credit(s); prereq Grad student or instr consent
Instructor: Kahn, Jeffrey Paul
Description: Student may contact the instructor or department for information.

BTHX 5453 Law, Biomedicine, and Bioethics
1-4 credit(s); prereq Grad student or instr consent
Instructor: Wolf, Susan M
Description: Students may contact the instructor or department for information.

BTHX 5610 Bioethics Research and Publication Seminar
1 credit(s); prereq Grad student or instr consent
Instructor: Miles MD, Steven Haverstock
Description: Students may contact the instructor or department for information.

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

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

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

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8; prereq instr consent
Instructor: Elliott Jr, Bruce Carleton
Description: Students may contact the instructor or department for information.

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

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8; prereq instr consent
Instructor: DeBruin PhD, Debra Ann
Description: Students may contact the instructor or department for information.

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

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

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

BTHX 8610 Medical Consumerism
3 credit(s);
Instructor: Elliott Jr, Bruce Carleton
Description: Students 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: Students propose area for advanced individual study with faculty guidance. Students write proposal, which includes outcome objectives and work plan. Faculty member directs student's work and evaluates project.

BTHX 8900 Advanced Independent Study in Bioethics
1-4 credit(s), max credits 8; prereq instr consent
Instructor: DeBruin PhD, Debra Ann
Description: Students propose area for advanced individual study with faculty guidance. Students write proposal, which includes outcome objectives and work plan. Faculty member directs student's work and evaluates project.

BTHX 8900 Advanced Independent Study in Bioethics
1-4 credit(s), max credits 8; prereq instr consent
Instructor: Liaschenko, Joan
Description: Students propose area for advanced individual study with faculty guidance. Students write proposal, which includes outcome objectives and work plan. Faculty member directs student's work and evaluates project.

BTHX 8900 Advanced Independent Study in Bioethics
1-4 credit(s), max credits 8; prereq instr consent
Instructor: Marshall, Mary Faith
Description: Students propose area for advanced individual study with faculty guidance. Students write proposal, which includes outcome objectives and work plan. Faculty member directs student's work and evaluates project.

BTHX 8900 Advanced Independent Study in Bioethics
1-4 credit(s), max credits 8; prereq instr consent
Instructor: Turner, Leigh
Description: Students propose area for advanced individual study with faculty guidance. Students write proposal, which includes outcome objectives and work plan. Faculty member directs student's work and evaluates project.

Bioinformatics
BINF 5490 Bioinformatics Journal Club
S-N only, 1 credit(s), max credits 12, 6 completions allowed; Instructor: Cotner, Sehoya H
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 BJC 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 session, you probably should not take this class.

BINF 5490 Topics in Bioinformatics
1-6 credit(s), max credits 12, 6 completions allowed; prerequisite: 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

BIOL 1001 Introductory Biology I: Evolutionary and Ecological Perspectives
4 credit(s); Credit will not be granted if credit has been received for: BIOL 1001H; Meets CLE req of Biological Sciences/Lab Core; meets CLE req of Environment Theme
Instructor: Staff
Description: This course designed specifically for non-CBS majors, covers general evolutionary and ecological principles, emphasizing biological diversity from genetic variation to the diversity of species and ecosystems. Topics include scientific inquiry, history of evolutionary thought, principles of genetics, the nature of variation, behavioral ecology, human evolution and human population growth. Specific topics will address questions including: Why have sex at all? Why are there only two sexes? What conditions make populations more likely to reproduce sexually? What factors favor monogamy? Polygamy? Promiscuity? What can sex teach us about human behavior? Class meetings will include lecture, whole-group discussion, and various opportunities for active learning such as individual and group problem solving and discussion of case studies. Laboratory is in a two-hour block, designed to involve students in investigation, problem solving, and discovery. To the extent possible, the sex theme of this section will be incorporated in laboratory exercises.
Style: 65% Lecture, 35% Laboratory.
Grading: 33% mid exam, 25% final exam, 15% reports/papers, 16% quizzes, 4% in-class presentation, 7% problem solving.
Exam Format: multiple choice lecture exams

BIOL 1009 General Biology
4 credit(s); prerequisite high school chemistry; 1 term college chemistry recommended; Credit will not be granted if credit has been received for: BIOL 1009H; Meets CLE req of Biological Sciences/Lab Core;
Instructor: Brooker, Robert James
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The course focuses on four fields of biology: cell biology, genetics, evolution, and ecology. The course is divided into 13 lessons. Three of these lessons (lessons 4, 8, and 13) are exams. The other 10 lessons focus on topics in biology. Each of these 10 lessons covers two or three chapters in your textbook. You will also view online lectures that cover these chapters. For each lesson, you will turn in a homework assignment online, which I will grade and return to you. You will also take a quiz to see if you have a good understanding of the material. After you have completed lesson 3, you will take the first midcourse exam during lesson 4. This exam covers chapter 1, two introductory chemistry chapters, and the field of cell biology. After you’re finished with lesson 7, you will take the second midcourse exam during lesson 8; it covers the field of genetics. Finally, when you’re done with lesson 12, you will take the final exam during lesson 13. The final has 5 review questions on the first part of the course, but it is mostly a noncumulative exam that covers evolution and ecology. In addition to your textbook readings, online lectures, assignments, quizzes, and exams, this course also has a laboratory component. Each lab
has an assignment that will be turned in online. There are 8 labs. One of them involves the use of a microscope. A microscope is available at the University of Minnesota for your use, or you may find it possible to use one at a local high school, university, etc. Note: The quizzes and exams do not include material regarding the labs. Plan ahead, and pace your coursework carefully so that you can finish your course on time. (Note: Lab Exercise 8 requires preliminary work that you should begin early in the course.) Expect to spend a minimum of three months to complete the course. You may submit a maximum of two assignments per week and your instructor may take up to two weeks to grade and respond to your work. You should review any comments from your instructor on each assignment before you submit more work, in order to recognize your strengths and mistakes. Course Materials: Brooker, Robert J., Eric P. Widmaier, Linda J. Graham, and Peter D. Stiling. Biology (1st ed.). New York: McGraw-Hill Higher Education, 2008. The lab kit for this course is only available from the U of M Bookstores. It contains the items that you will need to complete eight assigned lab reports. You will also need to supply a few household items for many of the lab experiments. You will find a complete list of these supplies with the lab assignments. Instructor e-mail: brook005@umn.edu

**Style:** 100% Web Based.

**Grading:** 40% mid exam, 24% final exam, 10% quizzes, 10% written homework, 16% laboratory evaluation. As a general rule, no incompletes will be awarded. Please contact the instructor if you are facing extraordinary circumstances. See the Syllabus for more grading information.

**Exam Format:** Supervised, in-person (not online) exams.

**BIOL 1099H Honors: General Biology**

4 credit(s); preq high school chemistry, honors; one term of college chemistry recommended; Credit will not be granted if credit has been received for: BIOL 1099; Meets CLE req of Biological Sciences/Lab Core;

**Instructor:** STAFF

**Description:** An introduction to the major concepts and principles of modern biology. Topics include: structure and function of biological molecules, cell structure and function, energy recruitment and utilization, cellular reproduction, flow of genetic information through organisms and populations, principles of inheritance, evolution and ecology. Includes lab. This course has no prerequisites. Course satisfies the CLE lab distribution requirement in biology in a single semester. Tutorial aid is available during certain hours each day.

**Style:** 65% Lecture, 35% Laboratory.

**Grading:** 34% mid exam, 21% final exam, 10% reports/papers, 25% quizzes, 10% other evaluation. Unannounced lecture quizzes

**Exam Format:** multiple choice lecture exams

**BIOL 1020 Biology Colloquium**

S-N only, 1 credit(s), max credits 2;

**Instructor:** Hanna,Kathryn L

**Description:** This is a unique class, organized and run by upper division students, recommended for those who wish to explore the various fields and career alternatives in the biological sciences. The class gives students the chance to interact with biology faculty and students with similar interests. The Biology Colloquium offers both large-group seminars, featuring prominent scientists discussing their research programs or other speakers discussing their careers in biology, internship opportunities or health care careers. Small-group tours take you to research facilities on and off campus, such as the Raptor Rehabilitation Center, Cancer Center, Experimental Surgery Services, or research and development laboratories at Ecolab, Inc. Socially, Colloquium students always find time for fun, too, whether on a field trip, studying together in the student lounge, or participating in the optional tours or weekend events. Students may begin the Colloquium class any semester (preferably early in their academic studies) and take it two times. The second semesters allows you to conduct a project (see Biol 1093). This course is also the stepping stone to leadership responsibilities in the Biology Colloquium Program (see Biol 3600).

**Style:** 10% Discussion, 50% Field Trips, 40% Guest Speakers.

Class time is split between large group sessions and tours to science facilities.

**Grading:** 50% attendance, 50% reflection paper. Class attendance is required.

**BIOL 1093 Biology Colloquium: Directed Study**

S-N only, 1 credit(s); preq 1020 and concurrent enrollment 1020;

**Instructor:** Hanna,Kathryn L

**Description:** This course allows students early in their studies to explore various biology disciplines through an independent project or beginning research experience under the supervision of a faculty sponsor. The Biology Colloquium Student Leaders will help you find the biology-related project that fits your interests and allows you to earn University credit as well as try out the world of research. To be eligible, students must have taken one previous Biology Colloquium class (Biol 1020) and also be concurrently enrolled in the Biology Colloquium (Biol 1020). Examples of previous projects include: work with anaerobic bacteria, helping with data analysis in the lion project, working on chemical carcinogenesis, fruit fly genetics, liver cell research, monarch butterfly research, and many, many other projects across the University.

**Style:** Independent project working at least 3 hours per week on project.

**BIOL 1105 Introduction to Biology, Society, and the Environment**

A-F only, 2 credit(s);

**Instructor:** Decker,Mark David

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

**BIOL 1905 Freshman Seminar for the Biological Sciences: CSI Minnesota: Biologists Look at Forensic Science**

A-F only, 2 credit(s), max credits 6; preq freshman;

**Instructor:** Hanna,Kathryn L

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

**BIOL 1905 Freshman Seminar for the Biological Sciences: Ebola to SARS: Emergent Human Viruses**

A-F only, 1 credit(s), max credits 6; preq freshman;

**Instructor:** Wick,Susan M

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

**BIOL 1905 Freshman Seminar for the Biological Sciences: GENOMICS: Applications in Biomed Sci & Biotech**

A-F only, 1 credit(s), max credits 6; preq freshman;

**Instructor:** Hackett Jr,Perry B

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

BIOL 2001 Career Planning for Biologists
S-N only, 1 credit(s);
Instructor: LeFay, Linda
Description: This course leads you through the steps of career planning and decision making. You will assess your strengths, interests and values. You will learn how to research careers. You will learn about successful strategies for setting goals and making decisions. Not only will you learn about campus resources but you will attend and participate in campus activities. Discussions are both online and held in class. There is a very strong web-based component to the class.
Style: 5% Lecture, 20% Discussion, 15% Small Group Activities, 10% Field Trips, 50% Web Based.

BIOL 2001 Career Planning for Biologists
S-N only, 1 credit(s);
Instructor: Mraz, Anna Catherine
Description: This course leads you through the steps of career planning and decision making. You will assess your strengths, interests and values. You will learn how to research careers. You will learn about successful strategies for setting goals and making decisions. Not only will you learn about campus resources but you will attend and participate in campus activities. Discussions are both online and held in class. There is a very strong web-based component to the class.
Style: 5% Lecture, 20% Discussion, 15% Small Group Activities, 10% Field Trips, 50% Service Learning.

BIOL 2002 Foundations of Biology for Biological Sciences
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: Mraz, Anna Catherine
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: 10% Lecture, 10% Discussion, 50% Laboratory, 30% Small Group Activities.
Grading: 30% mid exam, 15% final exam, 50% laboratory evaluation, 5% problem solving.

BIOL 2002 Foundations of Biology for Biological Sciences
Majors, Part II
A-F only, 3 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: Matthes, David J
Description: BIOL 2002 is intended for majors in the College of Biological Sciences. It is the first of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes evolution, organismal diversity, and genetics within the context of problem solving and application. The lecture/recitation sections are integrated with laboratory exercises to give students basic experience with the methods of modern biology. Student participation is encouraged.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 15% final exam, 50% laboratory evaluation, 5% problem solving.

BIOL 2002H Foundations of Biology for Biological Sciences
Majors, Part I
A-F only, 5 credit(s); 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: LeFay, Linda
Description: BIOL 2002H is intended for majors in the College of Biological Sciences. It is the first of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes evolution, organismal diversity, and genetics within the context of problem solving and application. The lecture/recitation sections are integrated with laboratory exercises to give students basic experience with the methods of modern biology. Student participation is encouraged.
Style: 10% Lecture, 10% Discussion, 50% Laboratory, 30% Small Group Activities.
Grading: 13% mid exam, 12% final exam, 15% special projects, 20% quizzes, 5% class participation, 35% laboratory evaluation.
Projects and 25% of quiz grades are based on team efforts.

BIOL 2002H Foundations of Biology for Biological Sciences
Majors, Part II
A-F only, 3 credit(s); prereq [2002 or 2002H or CBS major], concurrent enrollment in BIOL 2004 (must register for 2004 before 2003), [MATH 1271 or equiv]; Credit will not be granted if credit has been received for: BIOL 2003H;
Instructor: Brooker, Robert James
Description: BIOL 2003 is intended for majors in the College of Biological Sciences. It is the second of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes ecology and biochemistry within the context of problem solving and application. This second semester emphasizes application of quantitative skills, concepts, and tools to biological problems through independent research. While students will meet regularly with instructors, they also will be responsible for scheduling their time in an open lab in order to complete their research project. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

BIOL 2003 Foundations of Biology for Biological Sciences
Majors, Part II
A-F only, 3 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: Matthes, David J
Description: BIOL 2002 is intended for majors in the College of Biological Sciences. It is the first of two foundational courses that cover core biological concepts, from biomolecules to ecosystems. This course emphasizes evolution, organismal diversity, and genetics within the context of problem solving and application. The lecture/recitation sections are integrated with laboratory exercises to give students basic experience with the methods of modern biology. Student participation is encouraged.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 15% final exam, 50% laboratory evaluation, 5% problem solving.
BIOL 2003 Foundations of Biology for Biological Sciences
Majors, Part II
A-F only, 3 credit(s); prereq [2002 or 2002H or CBS major], concurrent enrollment in Biol 2004H (must register for 2004 before 2003), [MATH 1271 or equiv]; Credit will not be granted if credit has been received for: BIOL 2003H;
Instructor: Wassenberg, Deena Marie
Description: This course emphasizes ecology and biochemistry within the context of problem solving and application. Emphasis is placed on application of quantitative skills, concepts, and tools to biological problems through independent research.

BIOL 2004 Foundations of Biology for Biological Sciences
Majors, Part II Laboratory
A-F only, 2 credit(s); prereq [2002 or 2002H or CBS major], concurrent enrollment in Biol 2003 (must register for 2004 before 2003); Credit will not be granted if credit has been received for: BIOL 2004H;
Instructor: Couch, Brett Charles
Description: This course emphasizes ecology and biochemistry within the context of problem solving and application. Emphasis is placed on application of quantitative skills, concepts, and tools to biological problems through independent research.

BIOL 2005 Animal Diversity Laboratory
1 credit(s); Credit will not be granted if credit has been received for: BIOL 2012;
Instructor: STAFF
Description: This is a laboratory course and requires dissection and direct observation of animal diversity with emphasis upon morphology. The phylogenetic survey, from unicellular protists through the vertebrates, includes a wide array of organismal variation. Special attention is placed upon mamalian anatomy through dissection of the fetal pig. Students develop an understanding of the patterns and complexities of animal diversity through the experience of hands-on laboratory exercises.
Style: 5% Discussion, 95% Laboratory.
Grading: 55% mid exam, 37% final exam, 8% quizzes.
Exam Format: multiple choice/practical

BIOL 2006 General Botany
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 liberally 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 quizzes 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 2301 Leadership And Service
S-N only, 2 credit(s); prerequisite [1301, CBS Dean's Scholar] or instructor consent.
Instructor: Stein, Meaghan Elizabeth
Description: Student may contact the instructor or department for information.

BIOL 2311 Integrative Biology
A-F only, 4 credit(s); prerequisite [Grade of at least C- in [[MATH 1161] or equivalent], [CHEM 1231 or equivalent], &CHEM 2231] or placement test; Meets CLE req of Biological Sciences/Lab Core.
Instructor: Dunbar, Robert Lee
Description: Student may contact the instructor or department for information.

BIOL 3002 Plant Biology: Function
2 credit(s); prerequisite [1002 or 1009 or 2003 or equivalent], [CHEM 1011 or one semester chemistry with some organic content]; Instructor: Olszewski, Neil E
Description: You undoubtedly know that humans depend on plants for the oxygen that we breathe, our food and clothes, and for many of the houses in which we live. Of course this list can be expanded enormously (consider biofuels, wildlife habitat, the horticultural industry, medicines, etc.). This course examines how plants provide these services by investigating how they develop, grow, reproduce and interact with their environment. While plants may seem like simple organisms, they are in fact incredibly complex. Plants contain genomes that contain at least as many genes as the does the human genome, produce hormones that have profound effects on their growth and development, and obtain their nutrients entirely from the soil and atmosphere, sometimes with the aid of amazing partnerships with bacteria and fungi. Whether you are a student interested in how plants respond to global climate change, how people can create sustainable agricultural systems, how scientists are using technology to create new crop varieties that are resistant to pathogens and tolerate poor soils and increasing temperatures, or are just interested in learning about the beautiful and fascinating mechanisms by which plants thrive, this course will provide you with a starting point for your future studies.
Style: 95% Lecture, 5% Film/Video.
Grading: 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); prerequisite 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 address 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 laboratory, 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); prerequisite [1002 or 1009 or 2003 or equivalent], CHEM 1021; Concurrent registration in 2005 is strongly recommended;
Instructor: Palmer, Melissa L
Description: The course examines the theoretical concepts and practice of leading change in organizational, community and/or social contexts. Each student will engage in a hands-on experience leading a change initiative. Students will create a vision for change, develop an action plan, implement their plan, and evaluate the outcomes of their work within a project focused on their areas of professional interest (health care, environment, etc.) or science education. The course material and discussions will serve as a framework and provide support as engage in the experiential components of the change project.

BIOL 3302 Leadership For Change
S-N only, 1 credit(s); prerequisite 1301, 2301, CBS dean's scholar; 2001 recommended;
Instructor: Asmundson, Aaron R
Description: This course examines the theoretical concepts and practice of leading change in organizational, community and/or social contexts. Each student will engage in a hands-on experience leading a change initiative. Students will create a vision for change, develop an action plan, implement their plan, and evaluate the outcomes of their work within a project focused on their areas of professional interest (health care, environment, etc.) or science education. The course material and discussions will serve as a framework and provide support as engage in the experiential components of the change project.

BIOL 3407 Ecology
3 credit(s); prerequisite [One semester college biology], [MATH 1142 or MATH 1271 or MATH 1281 or equivalent]; Credit will not be granted if credit has been received for: EEB 3001; Meets CLE req of Environment Theme;
Instructor: Cavender-Bares, Jeannine Marie
Description: Student may contact the instructor or department for information.

BIOL 3409 Evolution
3 credit(s); prerequisite One semester college biology; Credit will not be granted if credit has been received for: BIOL 5409;
Instructor: Lanyon, Scott Merrill
Description: Student may contact the instructor or department for information.
**BIOL 3409 Evolution**

3 credit(s); prerequisite: one semester of college biology; credit will not be granted if credit has been received for: BIOL 5409.

**Description:** This course explores the foundations of evolutionary biology. We will examine the divergence of biological forms through history with an emphasis on presently existing biological diversity. We will investigate the mechanisms of evolution and illustrate them with current research. A primary objective of the course is that students learn evolutionary principles and develop the capability of applying these principles to understand how the biological world has evolved and continues to evolve. The course includes lectures and weekly section meetings for labs, discussions, and computer simulation exercises. The course readings are drawn primarily from Freeman and Herron Evolutionary Analysis (3rd edition, 2003). This text is available in the bookstore and will be on reserve in Magrath (St. Paul Central) Library. The lab manual is also available at the bookstore.

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

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

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

**BIOL 3411 Introduction to Animal Behavior**

3 credit(s); prerequisite: one semester of college biology; credit will not be granted if credit has been received for: BIOL 3811.

**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 essay.

**BIOL 3600 Directed Instruction**

S-N only; 1-2 credit(s); maximum credits 6, 6 completions allowed; prerequisite: upper division, application, instructor consent; up to 4 cr may apply to major.

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

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

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

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

**Instructor:** Hanna, Kathryn L

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

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

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

**BIOL 3700 Undergraduate Seminar: Sex determination in animals**

S-N only; 1 credit(s); maximum credits 3, 3 completions allowed; prerequisite: one semester of college biology or major in Animal Science, Genetics or Molecular Biology.

**Instructor:** Phillips, Jane Ann

**Description:** Gateway to Research is intended for students ready to embark on a research experience at the University. This course will cover the basics about research culture, funding, regulation, and ethics so that the student will enter a lab with an understanding of how research is done. Besides the listed instructor, we will have visiting researchers during some of the class periods so students can hear different perspectives. Students will also work on individual programs to find a research mentor and set up a research experience. Students at all stages of their undergraduate career are welcome.

**Style:** 40% Discussion, 40% Small Group Activities, 10% Field Trips, 10% Guest Speakers.

**Grading:** 50% reports/papers, 50% in-class presentation. Absences will be counted against the in-class participation points since you cannot participate if you are not there.

**BIOL 4003 Genetics**

3 credit(s); prerequisite: [BIOC 3021 or BIOC 4331], any CBS major or major in (Animal science or applied plant science or bio-animal health or bio-microbiology or nutrition or physiology or biology/soil/technology) or instructor consent; credit will not be granted if credit has been received for: GCD 3022.

**Instructor:** Springer, Nathan Michael

**Description:** This course is a survey of genetics for biology majors. The goal of this course is for students to develop an understanding of the principles of genetics. This includes
understanding the transmission of genetic information from one generation to the next, how genetic information is expressed in cells and organisms and how the information within a population can change over time. The course will also discuss the practical applications of genetics and the new methods being used to understand genetic inheritance and genetic control of traits. 

Topics that will be covered in the course include Mendelian genetics, dominance, epistasis, probability & chi-square, sex chromosomes, nucleic acid & chromosome structure, replication of DNA, linkage, crossing over, gene mapping, recombination in microorganisms, transposable genetic elements, variations in chromosome number and structure, regulation of gene expression, mutation and DNA repair mechanisms, molecular genetics, cloning and sequencing of genes, genomics, the genetics of cancer, the inheritance of complex traits & heritability, and population genetics. 

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

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

**BIOL 4003 Genetics**

3 credit(s); 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:** Lefebvre, Paul A 

**Description:** 

<table>
<thead>
<tr>
<th>Style</th>
<th>Grade Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% Lecture</td>
<td>93% or more--A 90-92%--A- 87-89%--B+ 83-86%--B 80-82%--B 75-79%--C+ 70-74%--C 68-69%--C- 65-67%--D+ 50-56%--D 49% or fewer--F If you take the course on the S/N basis, you must earn the equivalent of a C to receive an S grade.</td>
<td>Style: This is a printed correspondence course. Grading: 40% mid exam, 40% final exam, 20% written homework. 93% or more--A 90-92%--A- 87-89%--B+ 83-86%--B 80-82%--B 75-79%--C+ 70-74%--C 68-69%--C- 65-67%--D+ 50-56%--D 49% or fewer--F If you take the course on the S/N basis, you must earn the equivalent of a C to receive an S grade.</td>
</tr>
</tbody>
</table>

**Exam Format:** Problem solving

**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:** Shaw, Jocelyn E 

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

**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:** Brooker, Robert James 

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

**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. 

<table>
<thead>
<tr>
<th>Style</th>
<th>Grade Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>95% Lecture, 5% Discussion</td>
<td>80-82%--B 75-79%--C+ 70-74%--C 68-69%--C- 65-67%--D+ 50-56%--D 49% or fewer--F If you take the course on the S/N basis, you must earn the equivalent of a C to receive an S grade.</td>
<td>Style: 80% Lecture, 20% Discussion. Grading: 60% mid exam, 40% final exam. Exam Format: multiple choice, short essay</td>
</tr>
</tbody>
</table>

**Exam Format:** problem solving, multiple choice

**BIOL 4004 Cell Biology**

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

**Instructor:** Koenig, Deanna 

**Description:** 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 applicable to basic studies in other areas of science and technology. The course provides an intensive 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.

**BIOL 4004 Cell Biology**

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

**Instructor:** Nakato,Hiroshi

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

**BIOL 4201 Teaching in the Biology Laboratory**

S-N only, 1 credit(s), max credits 2; prereq Student who is teaching in CBS lab course;

**Instructor:** Palmer,Melissa L

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

**BIOL 4950 Special Topics in Biology**

A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;

**Instructor:** Matthes,David J

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

**BIOL 4960H Honors Thesis**

A-F only, 2 credit(s); prereq Honors, [College of Biological Sciences student or interdisciplinary major with life sciences focus];

**Instructor:** Corrigan,Sarah Huhta

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

**BIOL 5407 Ecology**

3 credit(s); prereq [One semester college biology, [MATH 1142 or MATH 1271 or MATH 1281 or equiv], grad student] or instr consent; Credit will not be granted if credit has been received for: EEB 3001;

**Instructor:** Cavender-Bares,Jeannine Marie

**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:** Lanyon,Scott Merrill

**Description:** This course explores the foundations of evolutionary biology. We will examine the divergence of biological forms through history with an emphasis on presently existing biological diversity. We will investigate the mechanisms of evolution and illustrate them with current research. A primary objective of the course is that students learn evolutionary principles and develop the capability of applying these principles to understand how the biological world has evolved and continues to evolve. The course includes lectures and weekly section meetings for labs, discussions, and computer simulation exercises. The course readings are drawn primarily from Freeman and Herron Evolutionary Analysis (3rd edition, 2003). This text is available in the bookstore and will be on reserve in McGrath (St. Paul Central) Library. The lab manual is also available at the bookstore.

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

**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:** Tiffin,Peter L

**Description:** This course explores the foundations of evolutionary biology. We will examine the divergence of biological forms through history with an emphasis on presently existing biological diversity. We will investigate the mechanisms of evolution and illustrate them with current research. A primary objective of the course is that students learn evolutionary principles and develop the capability of applying these principles to understand how the biological world has evolved and continues to evolve. The course includes lectures and weekly section meetings for labs, discussions, and computer simulation exercises. The course readings are drawn primarily from Freeman and Herron Evolutionary Analysis (3rd edition, 2003). This text is available in the bookstore and will be on reserve in McGrath (St. Paul Central) Library. The lab manual is also available at the bookstore.

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

**BIOL 6793 Directed Studies**

1-7 credit(s), max credits 7, 7 completions 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 completion 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.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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 3011 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% midterm exam, 27% final exam, 18% laboratory evaluation, 10% problem solving.
Exam Format: short answer and problems

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

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

BMEN 4002W Biomedical Engineering Design II
A-F only, 3 credit(s); prereq 4001W; Meets CLE req of Writing Intensive;
Instructor: Ashkenazi,Shai
Description: Student may contact the instructor or department for information.

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

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

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

BMEN 5151 Introduction to BioMEMS and Medical Microdevices
A-F only, 2 credit(s); prereq IT sr or grad student or medical student;
Instructor: Saliterman MD,Steven S
Description: "Intro to BioMEMS and Medical Microdevices" is oriented to engineering and health sciences students. It includes the following topics: 1) microfabrication of silicon, glass and polymer materials; 2) microfluidics and electrokinetics; 3) sensors, actuators and drug delivery systems; 4) micro total-analysis systems and lab-on-a-chip devices; 5) introduction to clinical laboratory medicine; 6) detection and measuring systems; 7) genomics, proteomics, DNA and protein microarrays; 8) emerging applications in medicine, research and homeland security; 9) packaging, power systems, data communication and RF safety; and 10) biocompatibility and the ISO 10993 Standard. This course is ideal for senior undergraduate students; graduate students in biomedical, electrical, chemical, or mechanical engineering; materials science; and health related fields including biochemistry, molecular and cellular biology, physiology, genetics, laboratory medicine or medical school. The course content follows Dr. Saliterman’s textbook: “Fundamentals of BioMEMS and Medical Microdevices” (SPIE and Wiley Interscience).
Style: 70% Lecture, 10% Discussion, 15% Student Presentation.
5% Tour of the Nanofabrication Center and Characterization Facility
Grading: 40% midterm exam, 40% final exam, 10% in-class presentation, 10% class participation.
Exam Format: Essay

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
flows and electrochemical transport. The four major sections of the course are: Interstitial and transvascular flow (Barocas, D’arcy’s law, poroelasticity) Cardiovascular flow (Barocas, Boundary Layer Theory, pulsatile flow) Electrochemical transport (Siegel, Donnan equilibrium, Nernst-Planck eqn). Special topics (Barocas, Drug delivery, blood oxygenation, intraocular 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 5311 Advanced Biomedical Transport Processes
3-4 credits(s), max credits 4, 1 completion 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: Interstitial and transvascular flow (Barocas, D’arcy’s law, poroelasticity) Cardiovascular flow (Barocas, Boundary Layer Theory, pulsatile flow) Electrochemical transport (Siegel, Donnan equilibrium, Nernst-Planck eqn). Special topics (Barocas, Drug delivery, blood oxygenation, intraocular 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 5444 Muscle
3 credits(s);
Instructor: Thomas, David D
Description: Description: Introduction to physiology, biochemical regulation, and physical chemistry of muscle contraction. Prerequisites: undergraduate courses in biochemistry or physiology.
Style: 80% Lecture, 15% Discussion, 5% Laboratory.
Grading: 25% mid exam, 40% final exam, 35% reports/papers.
Exam Format: essay, problem solving

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

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

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

BMEN 8710 Directed Research
1-3 credits(s), max credits 3, 1 completion allowed;
Instructor: Barocas, Victor Howard
Description: Student may contact the instructor or department for information.

BMEN 8720 Internship in Biomedical Engineering
S-N only, 3 credits(s); prereq Grad BMEn major;
Instructor: Barocas, Victor Howard
Description: Student may contact the instructor or department for information.

BMEN 8820 Plan B Project
2-3 credits(s), max credits 3, 1 completion allowed; prereq BMEn MS student;
Instructor: Barocas, Victor Howard
Description: Student may contact the instructor or department for information.

Biomedical Informatics and Computational Biology
BICB Graduate Program Administration

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

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

BICB 8932 Proposal Writing Seminar
S-N only, 1 credit(s); prereq BICB PhD student or instr consent;
Instructor: Carlis, John Vincent
Description: Student may contact the instructor or department for information.

BICB 8940 Education and Pedagogy Seminar
S-N only, 1 credit(s), max credits 4, 4 completions allowed; prereq BICB grad student or instr consent;
Instructor: Neuhauser, Claudia
Description: Student may contact the instructor or department for information.

Biophysical Sciences

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
BBE 3033 Material and Energy Balances in Biological Systems
A-F only, 3 credit(s); prereq CHEM 1022, [MATH 1272 or MATH 1372], PHYS 1302;
Instructor: Bhattacharya,Mrinal
Description: The objective of this course is to introduce students to synthesize various processes that are used to convert raw materials to end products. The students learn to quantify industrial processes through material and energy balance, selecting appropriate separation processes and optimizing key process variables. Examples from the bioprocessing and food industry will be used as illustrations.
Style: 60% Lecture, 10% Discussion. Problem solving
Grading: 40% problem solving, 60% other evaluation. 20% for each of the 3 exams
Exam Format: Problem solving

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

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

BBE 4013 Transport in Biological Systems
A-F only, 4 credit(s); prereq [3033 or Concurrent registration is required (or allowed) in 3033 or CHEN 3701], CE 3502, [ME 3331 or CHEN 4101], upper div IT;
Instructor: Nieber,John Little
Description: The course involves the application of the principles of thermodynamics, fluid flow, heat transfer and mass transfer to solving of problems involving biological processes and biomaterials at the cellular, organism and system level. Application problems include those related to analysis of biological systems, agricultural production, food processing and bioprocessing, biomaterials design, environmental protection, and natural resources management. After completion students should be able to: 1) Derive constitutive relationships for fluid flow, energy and mass transport in biological systems; 2) Formulate equilibrium thermodynamic relationships for states of thermal energy and mass in biological systems; 3) Formulate the governing equations for fluid flow, energy and mass transport in biological systems; 4) Recognize analytical solutions to well-posed mathematical statements related to fluid flow, and energy and mass transport in biological systems; 5) Understand the fundamentals and applications of discrete methods such as finite differences for solving well-posed mathematical statements related to fluid flow, and energy and mass transport in biological systems; 6) Solve practical problems involving fluid flow, energy and mass transport in biological systems. Fundamentals presented in the lectures and textbook are balanced with practical applications. In addition to homework assignments and exams, students develop designs for two practical problems.
Style: 75% Lecture. 25% Problem Solving
Grading: 20% mid exam, 20% final exam, 20% project, 20% 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 ;
Instructor: Schilling,Jonathan Scott
Description: Class Description: I. 4/5302 Course Rationale: Bioproducts such as wood and wood composites are susceptible to degradation by biological organisms. Smart use and treatment of bioproducts can increase their service life and save money, but this requires familiarity with potential degraders.
Understanding biodegradative pathways is also helping researchers develop novel means for processing raw materials and for bioengineering products. II. Course Description: This course explains organisms that modify or deteriorate lignocellulosic bioproducts, covers avoidance and control of these organisms, and explores their potential utilization in biotechnology. This course is required for all undergraduate students in the Department of Bioproducts and Biosystems Engineering.

Style: 75% Lecture, 15% Discussion. Hands on training
Grading: 60% mid exam, 20% final exam, 10% class participation, 10% other evaluation. attendance
Exam Format: 3 midterm exams (multi-format = information comprehension + application)

BBE 4303 Introduction to Bio-based Materials Science

A-F only, 3 credit(s); prerequisite 3001; Credit will not be granted if credit has been received for: BBE 5303;
Instructor: Severtson, Steven John
Description: Student may contact the instructor or department for information.

BBE 4341 Papermaking Processes and Process Engineering Laboratory

3 credit(s); prerequisite instructor consent;
Instructor: Ramaswamy, Shri
Description: Student may contact the instructor or department for information.

BBE 4333 Off-road Vehicle Design

A-F only, 3 credit(s); prerequisite [[3001, 4303] or [AEM 2021, AEM 3031], [CE 3502] or Concurrent registration is required (or allowed) in CE 3502], upper div IT or instructor consent; Credit will not be granted if credit has been received for: BBE 5333;
Instructor: Chaplin, Jonathan
Description: Mechanics involved in designing and testing off-road vehicles. Vehicle mechanics, traction, and performance modeling of vehicle interaction with soil, muskeg, and snow. Off-road vehicles include: agricultural tractors, SUVs, snowmobiles, single track vehicles, and many others. Course provides insight into engine performance requirements, transmission design, steering, suspension and other vehicle systems.

BBE 4355 Design of Wood Structures

3 credit(s); prerequisite 3001 or WPS 4301 or CE student or instructor 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.

BBE 4402 Bio-based Products Engineering Lab I

A-F only, 1 credit(s); prerequisite CHEM 2301, [or jr or sr or instructor consent]; Credit will not be granted if credit has been received for: BBE 5402;
Instructor: Tschiner, Ulrike Waltrau

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

BBE 4412W Bio-based Products Manufacturing and Applications II

3 credit(s); prerequisite 1002, upper div BP; Credit will not be granted if credit has been received for: BBE 5412; Meets CLE req of Writing Intensive;
Instructor: Seavey, Robert Thomas

Style: 50% Lecture, 25% Laboratory, 25% Field Trips.
Grading: 30% mid exam, 20% final exam, 40% reports/papers, 10% other evaluation.

BEB 5413 Systems Approach to Residential Construction

4 credit(s); prerequisite [3411, upper div] or instructor consent; Credit will not be granted if credit has been received for: BBE 5413;
Instructor: Seavey, Robert Thomas
Description: Student may contact the instructor or department for information.

BBE 5416 Building Testing and Diagnostics

2 credit(s); prerequisite 4413 or WPS 4333; Credit will not be granted if credit has been received for: BBE 5416;
Instructor: Seavey, Robert Thomas
Description: Student may contact the instructor or department for information.

BBE 4491 Senior Topics: Independent Study

1-4 credit(s), max credits 4, 1 completion allowed; prerequisite senior, instructor consent.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
BBE 4723 Food Process Engineering
A-F only, 3 credit(s); prereq [4013 or Concurrent registration is required (or allowed) in 4013] upper div IT or instr consent ; Credit will not be granted if credit has been received for: BBE 5723;
Instructor: Ruan PhD,R. Roger
Description: Application of principles of heat transfer and fluid flow to the design of various food processing operations, such as thermal and aseptic processing, freezing, pumping, drying, evaporation, and extrusion. Marketing and government regulation, nutrition issues, etc. Emphasis is on design and application of engineering principles to various food processing unit operations, such as sterilization, pumping, heat exchangers and evaporators. Course involves both lecture and problem solving. Students in any engineering discipline with interest in food processing can successfully complete this course. Homework assignments, one mid-term exam and a final exam are required of every student.
Style: 60% Lecture, 20% Discussion. 20% Tutorials
Grading: 34% midterm exam, 36% final exam, 30% problem solving.
Exam Format: Open book/open notes/take-home exam

BBE 4733 Renewable Energy Technologies
A-F only, 3 credit(s); prereq Upper div IT or grad student or instr consent ; Credit will not be granted if credit has been received for: BBE 5733;
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, hydropower, tidal power, and geothermal energy, an understanding of basic characteristics of renewable resources, key methods for efficient production and use of renewable energy, and 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.

BBE 4801H Honors Research
A-F only, 2 credit(s); prereq BP upper div honors;
Instructor: STAFF
Description: First semester of independent research project supervised by faculty member.

BBE 4900 Intern Reports
S-N only, 2 credit(s), max credits 4; prereq IT or COAFES student in BAE, instr consent ;
Instructor: Janni,Kevin A
Description: Student exposure to engineering practice through an internship program. Periodic reports on work assignments are reviewed by faculty and coordinated with industry advisors.

BBE 5095 Special Problems
1-5 credit(s), max credits 5, 1 completion allowed; prereq instr consent ;
Instructor: STAFF
Description: Advanced individual-study project. Application of engineering principles to specific problem. Student may contact the instructor or department for information.

BBE 5202 Wood and Fiber Science
A-F only, 3 credit(s);
Instructor: Tze,William Tai Yin
Description: The anatomical/ cellular structure, physical, mechanical, and chemical properties of wood and other plant biomass. Impact of tree growth and forest management on wood quality, and implications of whole-tree utilization. Measurement and evaluation of wood raw materials. Common processing/conversion technologies for wood materials and other
BBE 5302 Organisms Impacting Bio-based Products
3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: BBE 4302;
Instructor: Schilling, Jonathan 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 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% midterm exam, 20% final exam, 10% class participation, 10% other evaluation. attendance
Exam Format: 3 midsemester exams (multi-format = information comprehension + application)

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

BBE 5314 Papermaking Processes and Process Engineering Laboratory
3 credit(s); prereq Grad student or instr consent;
Instructor: Ramasamy, Shri
Description: Student may contact the instructor or department for information.

BBE 5333 Off-road Vehicle Design
A-F only, 3 credit(s); prereq [(3001, 4303) or (AEM 2021, AEM 3031), [CE 3502 or Concurrent registration is required (or allowed) in CE 3502], upper div IT] or instr consent; Credit will not be granted if credit has been received for: BBE 4333;
Instructor: Chaplin, Jonathan
Description: Mechanics involved in designing and testing off-road vehicles. Vehicle mechanics, traction, and performance modeling of vehicle interaction with soil, muskeg, and snow. Off-road vehicles include: agricultural tractors, SUVs, snow mobiles, single track vehicles, and multi-wheeled. Course provides insight into engine performance requirements, transmission design, steering, suspension and other vehicle systems. Additional project work required for credit in BBE 5333.

BBE 5402 Bio-based Products Engineering Lab I
A-able, 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.

BBE 5412 Manufacturing and Applications of Bio-based Products
4 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: BBE 4412W;
Instructor: Seavey, Robert Thomas
Style: 50% Lecture, 25% Laboratory, 25% Field Trips.
Grading: 30% midterm exam, 20% final exam, 40% reports/papers, 10% other evaluation.

BBE 5413 A Systems Approach to Residential Construction
4 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: BBE 4413;
Instructor: Seavey, Robert Thomas
Description: Student may contact the instructor or department for information.

BBE 5416 Building Testing & Diagnostics
2 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: BBE 4416;
Instructor: Seavey, Robert Thomas
Description: Student may contact the instructor or department for information.

BBE 5523 Ecological Engineering Design
A-F only, 3 credit(s); prereq CHEM 1022, [BIOI 3407 or BIOI 3807 or EEB 4068 or LA 3204], CE 3502, upper div IT; Credit will not be granted if credit has been received for: BBE 4523;
Instructor: Nieber, John Little
Description: Student may contact the instructor or department for information.
BBE 8002 Research Seminar I
S-N only, 1 credit(s), max credits 2; prereq 8001 or concurrent enrollment 8001 or equiv;
Instructor: Sarkanan, Simo
Description: Student may contact the instructor or department for information.

BBE 8094 Advanced Problems and Research
2-6 credit(s), max credits 6, 1 completion allowed; prereq 5095;
Instructor: Nieber, John Little
Description: Student may contact the instructor or department for information.

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

BBE 8300 Research Problems
1-10 credit(s), max credits 10, 10 completions allowed;
prereq instr consent;
Instructor: Severtson, Steve John
Description: Student may contact the instructor or department for information.

BBE 8300 Research Problems
1-10 credit(s), max credits 10, 10 completions allowed;
prereq instr consent;
Instructor: Sarkanan, Simo
Description: Student may contact the instructor or department for information.

BBE 8300 Research Problems
1-10 credit(s), max credits 10, 10 completions allowed;
prereq instr consent;
Instructor: Barney, Brett M
Description: Student may contact the instructor or department for information.

BBE 8300 Research Problems
1-10 credit(s), max credits 10, 10 completions allowed;
prereq instr consent;
Instructor: Tschirner, Ulrike Waltrau
Description: Student may contact the instructor or department for information.

BBE 8300 Research Problems
1-10 credit(s), max credits 10, 10 completions allowed;
prereq instr consent;
Instructor: Ramaswamy, Shri
Description: Student may contact the instructor or department for information.

BBE 8300 Research Problems
1-10 credit(s), max credits 10, 10 completions allowed;
prereq instr consent;
Instructor: Huelman, Patrick Henry
Description: Student may contact the instructor or department for information.

BBE 8300 Research Problems
1-10 credit(s), max credits 10, 10 completions allowed;
prereq instr consent;
Instructor: Smith, Tim
Description: Student may contact the instructor or department for information.

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

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

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

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

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

BA 1910W Freshman Seminar, WI: Pop Culture and the Evil Empire
A-F only, 2 credit(s), max credits 9, 3 completions allowed;
prereq freshman; Meets CLE req of Writing Intensive;
Instructor: Littlefield, Holly A
Description: Popular Culture and the Evil Empire: Business and
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 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010

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

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

BA 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 completions allowed;
Instructor: Lilefield,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 3999 Internship Seminar
S-N only, 1 credit(s); prereq Approved internship, instr consent;
Instructor: Surprenant,Tess Marie
Description: Student may contact the instructor or department for information.

BA 4000H Honors Seminar: Healthcare Marketplace: Trillion Dollar Economy
A-F only, 4 credit(s); prereq Honors;
Instructor: Parente, Stephen T
Description: Survey of trillion dollar medical industry. Physician/hospital services, insurance pharmaceuticals, medical devices, information technology. Scale, interactions, inter-relationships, market opportunities, barriers.

BA 4503 Carlson Ventures Enterprise
OPT No Aud, 2 credit(s), max credits 6, 3 completions 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 4990H Honors Thesis Seminar I
A-F only, 2 credit(s); prereq CSOM honors, 2nd sem jr;
Instructor: Manchester, Colleen Flaherty
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: Kramer, Jack
Description: First third of the course covers contracts and sales using the Socratic method of case analysis, much like a law school approach. Remainder of the course covers the law of warranties, product liability, negotiable instruments, real estate, wills and estates, agency, equal opportunity in employment law, secured transactions, and law relating to public companies and corporate governance.
Grading: 30% final exam, 60% additional semester exams, 10% class participation.
Exam Format: Mostly multiple choice. Also, short answer questions based on law school-type hyposes.

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

Business and Industry Education
BIE 1396 Supervised Career and Technical Education Teaching
S-N only, 4 credit(s); prereq college consent;
Instructor: Stertz EdD, 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 3061 Professional Sales Management
A-F only, 3 credit(s);
Instructor: Chaudhuri, Sanghamitra
Description: Student may contact the instructor or department for information.

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

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

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

BIE 5151 Technical Development: Specialized
A-F only, 1-12 credit(s), max credits 12, 12 completions allowed;
prereq instr consent;
Instructor: Stertz EdD, 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 5457 Methods of Teaching Business Employment and Marketing Employment
A-F only, 3 credit(s);
Instructor: Horazdovsky PhD, Jerry Edward
Description: Student may contact the instructor or department for information.

BIE 5596 Occupational Experience in Business and Industry
S-N only, 1-10 credit(s), max credits 10, 1 completion allowed;
prereq instr consent;
Instructor: Stertz EdD, 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 completions
allowed; prereq instr consent;
Instructor: Anderson, Orkideh M.
Description: Student may contact the instructor or department for information.

BIE 5605 Critical Issues in Business and Industry
3 credit(s);
Instructor: Cherry, Jennifer E
Description: Student may contact the instructor or department for information.

Center for Learning Innovation

CLI 1712 Introduction to Health Sciences II
S-N only, 1 credit(s); prereq fr in Bachelor of Science in Health Sciences (BHS);
Instructor: Dingel, Molly J.
Description: Student may contact the instructor or department for information.

Center for Spirituality and Healing

Mayo Code 505; C592 Mayo

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 in our stressful lifestyles. 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. 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 assignments each week; a key component of class is understanding how we can be more balanced as students in US society. The text will be Integral Healing by Elliott Dacher, 2006; additional readings will be from the CSPH website modules and other websites.
Grading: 100% reflection paper. Each assignment will ask students to read information or watch a video and understand the key aspects of these, then reflect on significance of the material and application to their lives.
Exam Format: No exams

CSPH 1101 Self, Society, and Environment: An Integral Systems Approach to Personal Wellbeing and Engagement
3 credit(s);
Instructor: Brady, Linda J
Description: Students will examine and reflect on the internal and external systems which influence their lives and health using various "ways of knowing" such as science, complexity theory, and other world views. They will examine the interrelated workings of mind and body and explore a variety of means of bringing these into dynamic balance. They will examine the variety of environmental and social systems in which they participate, once again combining theory, experience, and reflection to explore the optimal functioning of these systems, both for individuals and the collective whole. In addition to applying their learning within the realm of personal wellbeing, students will learn to be social entrepreneurs, bringing health and balance to the social and environmental systems in which they participate.
Style: 25% Lecture, 50% Discussion, 25% Small Group Activities.
Grading: 75% written homework, 15% reflection paper, 10% class participation. Class format will be to prepare written

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
assignments before class, discuss in small and large groups, then send in homework based on both reading and class discussion for the week.

CSPH 3201 Introduction to Mindfulness-Based Stress Reduction
2 credit(s);
Instructor: Storlie,Erik Fraser
Description: The class will introduce students to a variety of techniques by which the stress endemic in a fast-paced competitive culture can be both reduced, as well as worked with constructively. Students will engage in both experiential and intellectual learning. They will practice and apply techniques of stress-reduction through “mindfulness” - the steady, intentional gathering of a non-judgmental awareness into the present moment in various activities. They will also think critically as they study and evaluate recent medical-scientific literature on the physiological and psychological elements in the stress response.

CSPH 5000 Explorations in Complementary Therapies and Healing Practices: Peacebuilding Through Mindfulness
1-4 credit(s), max credits 12, 4 completions allowed; prereq Jr or sr or grad student or instr consent;
Instructor: Umbreit,Mark S
Description: Student may contact the instructor or department for information.

CSPH 5000 Explorations in Complementary Therapies and Healing Practices: Animals in Healthcare: healing dimensions...
1-4 credit(s), max credits 12, 4 completions allowed; prereq Jr or sr or grad student or instr consent;
Instructor: Larson,Jean Marie
Description: Student may contact the instructor or department for information.

CSPH 5000 Explorations in Complementary Therapies and Healing Practices: Healing Imagery I
1-4 credit(s), max credits 12, 4 completions allowed; prereq Jr or sr or grad student or instr consent;
Instructor: Heiderscheit PhD,Annie Lynne
Description: Student may contact the instructor or department for information.

CSPH 5000 Explorations in Complementary Therapies and Healing Practices: Drugs, Culture & Society
1-4 credit(s), max credits 12, 4 completions allowed; prereq Jr or sr or grad student or instr consent;
Instructor: McKenna PhD,Dennis Jon
Description: Student may contact the instructor or department for information.

CSPH 5011 Introduction to Complementary Healing Practices
3 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Culliton,Patricia D
Description: Student may contact the instructor or department for information.

CSPH 5102 Art of Healing: Self as Healer
1 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Towey,Sue Mary
Description: The initiation of a healer in ancient cultures was a rigorous process that included a personal journey of inner development and transformation that paralleled the learning of the cognitive and physical healing techniques. This course will introduce the health science student to the concept of the individual transformational journey. The science of psychoneuroimmunology (PNI) and mind-body-spirit approaches will be explored through a variety of methods including lecture, scientific literature review, meditation, imagery, journal writing and social support through group interaction. The students will have an opportunity to explore various aspects of self-knowledge, self-awareness, transpersonal (non-local) experiences and the paradoxical mysteries that will prepare them for their student and personal lives.

CSPH 5102 Art of Healing: Self as Healer
1 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Gorman,Rebecca Sue
Description: Student may contact the instructor or department for information.

CSPH 5115 Cultural Knowledge, Health, and Contemporary Cultural Communities
3 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Brady,Linda J
Description: The central goal of this course is that students understand how their personal cultural experience affects their view of health, illness, and healing and how this impacts professional practice. Students will learn in a setting of contact with the wisdom of cultural communities based on a curriculum developed and field tested at the Powderhorn Phillips Cultural Wellness Center. We will explore the cultural constructs underpinning the US medical system, the role of culture in the interaction between practitioner and patient, and the role of the reconnection to cultural heritage in healing of body, mind, spirit, and the society and environment around us.

Style: 20% Lecture, 60% Discussion, 20% Student Presentation. Given off campus at Powderhorn Phillips Cultural Wellness Center in S. Mpls
Grading: 20% reports/papers, 30% written homework, 50% class participation. Students submit critical reflections on class materials during the semester; most classes are discussion with lots of student input expectation, two presentations by each student on selected topics of culture and health

CSPH 5201 Spirituality and Resilience
2 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Marshall,Kathy M
Description: In-depth exploration of resilience, spirituality, and the link between them. Specific applications of the resilience/health realization model to students' personal and professional lives. Relevant literature, theory and research will be explored.

CSPH 5215 Forgiveness and Healing: A Journey Toward Wholeness
3 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Marshall,Kathy M
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, 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, Carolyn Ward
Description: This course will present a novel approach to the principles of nutrition as they relate to optimal health and the prevention, control or intervention in a disease process. This is a model of nutrition application that complements and expands beyond normal growth and development, an approach that attempts to reduce chronic disease by looking for underlying factors or triggers of disease. This model of nutrition considers system dysfunction a pre-disease state and looks for ways to apply nutrition and restore function. The purpose of the course is to provide an overview of this novel application of nutrition. The course will emphasize the importance of nutrition as a component of self-care.
Graduation: 25% final exam, 40% reports/papers, 10% in-class presentation, 25% other evaluation. Self assessment and written nutritional intervention

**CSPH 5511 Interdisciplinary Palliative Care: An Experiential Course in a Community Setting**
2 credit(s); prereq instr consent;
Instructor: STAFF
Description: Multidisciplinary teams of course participants will partner with interdisciplinary community hospice teams. They will participate in the delivery of care to patients in a variety of settings. This course will also include a series of seminars, employing self-analysis and case studies to further the participants’ appreciation of and expertise in palliative care.

**CSPH 5521 Therapeutic Landscapes**
3 credit(s); prereq [Jr or sr or grad student] in [health sciences or therapeutic recreation or horticulture or landscape architecture] or health professional or instr consent;
Instructor: Larson, Jean Marie
Description: This course is to help students build a theroretical 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
Graduation: 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-Loeber, Barbara E
Description: This course will cover the basic theories and approaches of selected Somatic Therapies, including dance, movement and body-based therapies. It will include 1) historic and theoretical perspectives on the use of movement, dance and somatic re-patterning, 2) demonstrations of specific techniques, and 3) application of techniques to specific populations and settings. The experiential part of the course will include individual, partner and group exercises intended to embody and deepen the topics covered in the class.

**CSPH 5611 Healthy Humor**
1 credit(s); prereq Jr or sr or grad student or instr consent;
Instructor: Smith, Kevin Lee
Description: Using formal lecture, informal discussion, written and web-based assignments, students will learn how to use humor to enhance communication, treatment, and relationships with patients, and how to create a positive work environment with co-workers, and how to create a more positive outlook. This course will also explore the many physiologic effects and benefits of humor and laughter and the effects on the immune system. Discussion will include contemporary humor, humor and spirituality, and the connection between positive outlook and health. Students will be provided with practical humor techniques and resources that will help them to become a humor expert.

**CSPH 5702 Fundamentals of Health Coaching II**
A-F only, 4 credit(s); prereq 5701;
Instructor: Lawson MD, Karen Lynn
Description: Please contact department or instructor for further information. There will be a $300 course fee associated with this course.

**CSPH 5705 Health Coaching Professional Internship**
S-N only, 2 credit(s); prereq 5701, 5702, 5703, admitted to postbaccalaureate certificate in complementary therapies/healing practices health coaching track; [5101, 5102, 5704] recommended;
Instructor: Lawson MD, Karen Lynn
Description: Student may contact the instructor or department for information.

**CSPH 8101 Critiquing and Synthesizing Complementary and Alternative Healing Practices (CAHP) Research**
2 credit(s); prereq Grad student;
Instructor: Duckett, Laura J
Description: Student may contact the instructor or department for information.

**CSPH 8191 Independent Study in Complementary Therapies and Healing Practices**
1-6 credit(s), max credits 6, 1 completion allowed; prereq instr consent;
Instructor: Ringdahl, Deborah Rene
Description: Student may contact the instructor or department for information.

**CSPH 8191 Independent Study in Complementary Therapies and Healing Practices**
1-6 credit(s), max credits 6, 1 completion allowed; prereq instr consent;
Instructor: Lawson MD, Karen Lynn
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Chemical Engineering
151 Amundson Hall

CHEN 3006 Mass Transport and Separation Processes
A-F only, 4 credit(s); prereq [2001 or 4001], [3005 or 4005], [3101 or 4101], [upper div ChEn major] or dept consent;
Instructor: Daoudi, Prodomos
Description: Student may contact the instructor or department for information.

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 3012 Reaction Kinetics and Reactor Engineering
A-F only, 4 credit(s); prereq [2001 or 4001], [3101 or 4101], [upper div ChEn major or dept consent] credit will not be granted if credit already received for: 4102;
Instructor: Bhan, Aditya
Description: Student may contact the instructor or department for information.

CHEN 3201 Numerical methods in ChEn applications
A-F only, 3 credit(s); prereq [2001 or 4001], [3005 or 4005], [3006 or 4006 or Concurrent registration is required (or allowed) in 3006 or Concurrent registration is required (or allowed) in 4006], [upper div ChEn major or dept consent] credit will not be granted if credit already received for: ChEn 4201;
Instructor: Dorfman, Kevin
Description: Student may contact the instructor or department for information.

CHEN 3201 Numerical methods in ChEn applications
A-F only, 3 credit(s); prereq [2001 or 4001], [3005 or 4005], [3006 or 4006 or Concurrent registration is required (or allowed) in 3006 or Concurrent registration is required (or allowed) in 4006], [upper div ChEn major or dept consent] credit will not be granted if credit already received for: ChEn 4201;
Instructor: Dorfman, Kevin
Description: Student may contact the instructor or department for information.

CHEN 3401W Junior Chemical Engineering Lab
A-F only, 2 credit(s); prereq [[3006 or Concurrent registration is required (or allowed) in 3006], [3102 or Concurrent registration is required (or allowed) in 3102], [3201 or Concurrent registration is required (or allowed) in 3201], [CHEM 2121 or equiv], CHEM 2311, upper div ChEn major]; Meets CLE req of Writing Intensive;
Instructor: Caretta, Raul Alberto
Description: Student may contact the instructor or department for information.

CHEN 3401W Junior Chemical Engineering Lab
A-F only, 2 credit(s); prereq [[3006 or Concurrent registration is required (or allowed) in 3006], [3102 or Concurrent registration is required (or allowed) in 3102], [3201 or Concurrent registration is required (or allowed) in 3201], [CHEM 2121 or equiv], CHEM 2311, upper div ChEn major]; Meets CLE req of Writing Intensive;
Instructor: Caretta, Raul Alberto
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 yr, GPA of at least 2.80, registered 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 4214 Polymers
A-F only, 3 credit(s); prereq [[MATS 3011, [3101 or 4101 or MATS 4001], [upper div MatS or ChEn]]] or instr consent;
Instructor: Bates, Frank S
Description: Polymer synthesis, characterization, structure property relations. Polymerization types: free radial, condensation, ionic, coordination polymerization kinetics and reactors; molecular weight distribution and its characteristics; network formation; swelling. Structure and morphology of the crystalline and amorphous state. 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% final exam, 35% final exam, 25% problem solving.

CHEN 4223W Polymer Laboratory
2 credit(s); prereq 4214 or Concurrent registration is required (or allowed) in 4214 or CHEM 4214 or Concurrent registration is required (or allowed) in 4214 or Concurrent registration is required (or allowed) in MATS 4214 or instr consent; Credit will not be granted if credit has been received for: CHEM 4223W; Meets CLE req of Writing Intensive;
Instructor: Hilmyer, Marc Andrew
Description: Student may contact the instructor or department for information.

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

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
Description: Polymer synthesis, characterization, structure property relations. Polymerization types: free radial, condensation, ionic, coordination polymerization kinetics and reactors; molecular weight distribution and its characteristics; network formation; swelling. Structure and morphology of the crystalline and amorphous state. 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 4502W Chemical Engineering Process Design II
A-F only, 2 credit(s); prereq 4501W, [upper div ChEn major or dept consent]; Meets CLE req of Writing Intensive;
Instructor: Cussler Jr, Edward L
Description: The chemical industry today is changed from the chemical industry of twenty-five years ago. Clear evidence of this change comes from the jobs taken by graduating chemical engineers.
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 4593 Directed study
OPT No Aud, 1-4 credit(s), max credits 6, 3 completions allowed; prereq ChEn major upper division, instr consent ; Instructor: STAFF
Description: Directed study under faculty supervision. Student must meet with faculty supervisor before registering to get permission to pursue directed study, arrange study project, grading option, number of credits, and final report requirements.

CHEN 4594 Directed Research
OPT No Aud, 1-4 credit(s), max credits 6, 3 completions allowed; prereq instr. Consent Upper div ChEn; Instructor: STAFF
Description: Independent laboratory research under faculty supervision. Student should meet with faculty supervisor before registering to get permission to pursue directed research, arrange research project, number of credits, grading option, and final report requirements.

CHEN 4601 Process Control
A-F only, 3 credit(s); prereq 4102, [upper div ChEn major or dept consent ]; Instructor: Derby,Jeffrey Jay
Description: Student may contact the instructor or department for information.

CHEN 4702 Advanced Undergraduate Rheology
A-F only, 2 credit(s); prereq [3005 or 4005], instr consent ; Instructor: Macosko,Chris
Description: Student may contact the instructor or department for information.

CHEN 5531 Electrochemical Engineering and Renewable Energy
A-F only, 3 credit(s); prereq [MATS 3011 or instr consent ], [upper div IT or grad student]; Credit will not be granted if credit has been received for: MATS 5531; Instructor: Smyr,William H
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 completion allowed; prereq 3005 or 4005 or equiv; Credit will not be granted if credit has been received for: ME 5381; Instructor: Barocas,Victor Howard
Description: Student may contact the instructor or department for information.

CHEN 8102 Principles and Applications of Rheology
A-F only, 2 credit(s); prereq 8101;
Instructor: Macosko,Chris
Description: Student may contact the instructor or department for information.

CHEN 8754 Systems Analysis of Biological Processes
3 credit(s); prereq Grad student in [life sciences or chemical/physical sciences or engineering]; ChEn students must take A-F; Instructor: Hu,Wei-Shou
Description: Student may contact the instructor or department for information.

CHEN 8901 Seminar
1 credit(s), max credits 9, 9 completions allowed; Instructor: Frisbie,C Daniel
Description: Student may contact the instructor or department for information.

CHEN 8993 Directed Study
1-12 credit(s), max credits 12, 1 completion allowed; Instructor: Frisbie,C Daniel
Description: Student may contact the instructor or department for information.

CHEN 8994 Directed Research
1-12 credit(s), max credits 12, 1 completion allowed; Instructor: Frisbie,C Daniel
Description: Student may contact the instructor or department for information.

Chemical Physics
139 Smith Hall

CHPH 8601 Seminar: Modern Problems in Chemical Physics
S-N only, 1 credit(s), max credits 2; prereq Grad chem physics major or instr consent ; Instructor: Siepmann,Illa
Description: Student may contact the instructor or department for information.

Chemistry
139 Smith Hall

CHEM 1015 Introductory Chemistry; Lecture
3 credit(s); prereq [High school chemistry or equiv], two yrs high school math, not passed chem placement exam, Internet access; high school physics recommended CHEM 1015 is a 3-credit, lecture-only course, with the lectures delivered online via WebVista, and exams taken in person on campus. Internet access is required. Students who will go on to take CHEM 1021 should take CHEM 1015 only. Students who will NOT be continuing on to CHEM 1021 and need to fulfill the Physical Science/Lab core requirement need take the 1-credit lab course CHEM 1017 either
concurrently or consecutively. This course will NOT fulfill the Physical Science/Lab core requirement unless the CHEM 1017 lab course is completed either concurrently or consecutively.; Credit will not be granted if credit has been received for: CHEM 1011; Meets CLE req of Physical Science/Lab Core;
Instructor: STAFF
Description: Chem 1015 is an undergraduate introductory chemistry course. It may meet a chemistry or science requirement or it may serve as a bridge between high school chemistry and Chem 1021. This course provides a broad survey of chemistry, including an introduction to organic chemistry. Additional topics include matter and energy; measurements in chemistry; ionic and molecular compounds; chemical reactions and chemical equilibrium; gases, liquids, solids, and solutions; acids and bases; and nuclear chemistry.
Style: 100% Lecture.
Grading: 5% problem solving, 95% three mid-term exams and a final exam

CHEM 1017 Introductory Chemistry: Laboratory
A-F only, 1 credit(s); prereq [1015 or Concurrent registration is required (or allowed) in 1015], dept consent credit will not be granted if credit received for: 1011; CHEM 1017 is a 1-credit lab-only course. This course is not intended for students who are planning to take CHEM 1021. Intended only for students who need the course to fulfill the Physical Science/Lab requirement, and are taking CHEM 1015 either concurrently or consecutively. This course will NOT fulfill the Physical Science/Lab core requirement, unless CHEM 1015 is completed either concurrently or consecutively.; Meets CLE req of Physical Science/Lab Core;
Instructor: STAFF
Description: Registration by department permission only. See staff in 115 Smith Hall or call 612-624-0026. CHEM 1017 is identical to the lab for CHEM 1011, but students do not attend any lecture or take any exams. Intended only for students who have taken the lecture-only course CHEM 1015, and later determine that taking the lab is now required.
Style: 100% Laboratory.

CHEM 1021 Chemical Principles I
4 credit(s); prereq Grade of at least C- in [1011 or 1015] or passing placement exam; intended for science or engineering majors Note: Students who have previously received a grade of C- or better and wish to repeat this course should not register for it during the registration queue. If they do they may have their registration canceled. They will be allowed to register on a space available basis, during open enrollment.; Credit will not be granted if credit has been received for: CHEM 1031H; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: STAFF
Description: Chem 1021 and Chem 1022 are introductory undergraduate chemistry courses with lab. Lectures include chemical demonstrations. Together these two courses prepare students for majors in science, engineering, and the health sciences. Topics include atoms, molecules, and ions; types of chemical reactions and chemical stoichiometry; thermochemistry; atomic structure and the periodic table; ionic and covalent bonding; molecular shapes; an introduction to organic chemistry and polymers; the nature of gases, liquids and solids.
Style: 50% Lecture, 50% Laboratory.
Grading: 20% laboratory evaluation, 80% other evaluation. Mid-term exams, final exam, problem sets

CHEM 1022 Chemical Principles II
4 credit(s); prereq Grade of at least C- in 1021 or equiv Note: Students who have previously received a grade of C- or better and wish to repeat this course should not register for it during the registration queue. If they do they may have their registration canceled. They will be allowed to register on a space available basis, during open enrollment.; Credit will not be granted if credit has been received for: CHEM 1032H; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: STAFF
Description: Chem 1022 is an introductory undergraduate chemistry course with lab. Together, Chem 1021 and Chem 1022 prepare students for majors in science, engineering, and the health sciences. Lectures include chemical demonstrations. Major topics are properties of solutions; chemical kinetics, the study of the rates and mechanisms of chemical reactions; chemical equilibrium in the gas phase; equilibria in aqueous solutions, including acid-base equilibria; entropy and free energy; electrochemistry; transition metals and coordination chemistry; and selected topics. Environmental issues related to course topics are an integral part of this course. For example, the discovery of the depletion of the stratospheric ozone layer by chlorofluorocarbons (CFCs) is an important application of chemical kinetics.
Style: 50% Lecture, 50% Laboratory.
Grading: 20% laboratory evaluation, 80% other evaluation. Mid-term exams, final exam, problem sets

CHEM 1032H Honors Chemistry II
A-F only, 4 credit(s); prereq [1031H or equiv], honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: CHEM 1022; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Stein,Andreas
Description: Student may contact the instructor or department for information.

CHEM 1905 Freshman Seminar: Science In The News
A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq freshman;
Instructor: Barany,George
Description: Student may contact the instructor or department for information.

CHEM 1905 Freshman Seminar: Scientific Progress: Pop Culture & Policy
A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq freshman;
Instructor: Cramer,Christopher J
Description: Student may contact the instructor or department for information.

CHEM 1905 Freshman Seminar: Recycling In The Twin Cities
A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq freshman;
Instructor: Noland,Wayland E
Description: Student may contact the instructor or department for information.

CHEM 1905 Freshman Seminar: NANO! Small Science, Big Deal
A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq freshman;
Instructor: Penn,Lee
Description: Student may contact the instructor or department for information.

CHEM 2094 Directed Research
1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;
Instructor: Stathopoulos,Stephanie M
Description: Student may contact the instructor or department for information.

CHEM 2121 Process Analytical Chemistry
A-F only, 3 credit(s); prereq [2302 or Concurrent registration is required (or allowed) in 2302]; [3501 or Concurrent registration is required (or allowed) in 3501], IT student;
Instructor: Haynes,Christy L
Description: Strategies/techniques for chemical analysis. Use of modern instruments, including spectroscopy, chromatography, and electrochemistry.
CHEM 2321 Introduction to Organic Chemistry - II
A-F only, 4 credit(s); prereq Grade of at least C- in [1231, MATH 1161], Concurrent registration is required (or allowed) in BIOL 2311; Meets CLE req of Physical Science/Lab Core; Instructor: Muthyala, Rajeev S.
Description: Student may contact the instructor or department for information.

CHEM 2301 Organic Chemistry I
3 credit(s); prereq Grade of at least C- in [1022 or 1032H] or equiv Note: Students who have previously received a grade of C- or better and wish to repeat this course should not register for it during the registration queue. If they do they may have their registration canceled. They will be allowed to register on a space available basis, during open enrollment.; Instructor: STAFF
Description: Important classes of organic compounds, their constitutions, configurations, conformations, and reactions. Relationships between molecular structure and chemical reactivity/properties. Spectroscopic characterization of organic molecules.
Style: 100% Lecture.
Grading: 100% other evaluation. 4 Midterm Exams and a Final Exam
Exam Format: Mix of multiple choice and written exams

CHEM 2302 Organic Chemistry II
3 credit(s); prereq Grade of at least C- in 2301; Instructor: STAFF
Description: Reactions, synthesis, and spectroscopic characterization of organic compounds, organic polymers, and biologically important classes of organic compounds such as lipids, carbohydrates, amino acids, peptides, proteins, and nucleic acids.
Style: 100% Lecture.
Grading: 100% other evaluation. 4 Mid-Term Exams and a Final Exam
Exam Format: Mix of multiple choice and written questions

CHEM 2311 Organic Lab
4 credit(s); prereq Grade of at least C- in 2302 or Concurrent registration is required (or allowed) in 2302; Instructor: Wissinger, 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 "&quot;Pavia&quot;" is required. Results are recorded both in report and worksheet formats. Overall, the objective is to give the students hands-on experience illustrating chemistry they learned in lecture, teach problem-solving skills, and demonstrate the value of organic chemistry in our daily lives.
Style: 10% Lecture, 90% Laboratory.
Grading: 74% reports/papers, 9% quizzes, 17% other evaluation. preparation and technique

CHEM 2920 Special Topics In Chemistry
S-N only, 1 credit(s), max credits 6, 6 completions allowed; prereq 1 sem 1xxx chemistry or instr consent; Instructor: Stathopoulos, Stephanie M
Description: Student may contact the instructor or department for information.

CHEM 3001 Chemical Literature and Information Retrieval
S-N only, 1 credit(s); prereq 2302 or concurrent enrollment 2302 or instr consent; Instructor: Lafferty, Meghan
Description: The ability to find chemical information is a crucial skill for chemists to have in order to make their research more efficient and avoid duplicating others' work. In this course, you will learn about the organization of the chemical literature, important resources for navigating the literature of chemistry, and selecting the most appropriate resource for your needs.

CHEM 3501 Introduction to Thermodynamics, Kinetics, and Statistical Mechanics
3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V]; Instructor: STAFF
Style: 100% Lecture.
Grading: 100% other evaluation. 3 Mid-term exams and a final exam

CHEM 3502 Introduction to Quantum Mechanics and Spectroscopy
3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374 or MATH 2243 or Concurrent registration is required (or allowed) in MATH 2243 or MATH 2373 or Concurrent registration is required (or allowed) in MATH 2373], [PHYS 1302 or PHYS 1402V]; Instructor: STAFF
Description: Introduction to microscopic descriptions of chemical systems. Elementary quantum theory. Applications to atomic/molecular structure. Molecular spectroscopy. Quantum statistical mechanics. While a course in differential equations is not required, solutions to several such equations are discussed.
Style: 100% Lecture.
Grading: 60% mid exam, 30% final exam, 10% problem solving

CHEM 4021 Computational Chemistry
3 credit(s); prereq 3502 or equiv; Instructor: Cramer, Christopher J
Description: Student may contact the instructor or department for information.

CHEM 4066 Chemistry of Industry
3 credit(s); prereq Chem sr or grad student or instr consent ; Instructor: Kapsner, Timothy Roland
Description: Student may contact the instructor or department for information.

CHEM 4094W Directed Research
1-5 credit(s), max credits 75, 15 completions allowed; prereq Any 3xxx or 4xxx chem course, instr consent; Meets CLE req of Writing Intensive; Instructor: Stathopoulos, Stephanie M
Description: Student may contact the instructor or department for information.

CHEM 4111W Intermediate Analytical Chemistry Lab
A-F only, 2 credit(s); prereq 4101, chemistry major; Meets CLE req of Writing Intensive; Instructor: Carr, Peter William
Description: Student may contact the instructor or department for information.

CHEM 4214 Polymers
A-F only, 3 credit(s); prereq [MATS 3011, [CHEN 4101 or CHEN 4101 or MATS 4001], [upper div MatS or ChEn or CHEM]) or instr consent ; Instructor: Bates, Frank S
CHEM 4223W Polymer Laboratory
2 credit(s); prereq 4221 or 4214 or CHEN 4214 or MATS 4214 or instr consent; Credit will not be granted if credit has been received for: MATS 4223W; Meets CLE req of Writing Intensive;
Instructor: Hillmyer,Marc Andrew
Description: Style: 20% Lecture, 80% Laboratory.
Grading: 60% reports/papers, 20% written homework, 20% laboratory evaluation.

CHEM 4311W Advanced Organic Chemistry Lab
2 credit(s); prereq 2311; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Reactions, techniques and instrumental methods used in modern synthetic organic chemistry.
Style: 10% Lecture, 90% Laboratory.
Grading: 100% laboratory evaluation.

CHEM 4322 Advanced Organic Chemistry
3 credit(s); prereq [2302 or equiv], 3501, instr consent ;
Instructor: Hoye,Thomas R.
Description: Student may contact the instructor or department for information.

CHEM 4352 Physical Organic Chemistry
3 credit(s); prereq 3501, [4011 or 8011];
Instructor: Kass,Steven R
Description: Student may contact the instructor or department for information.

CHEM 4412 Chemical Biology of Enzymes
3 credit(s); prereq [2302 or equiv], 3501;
Instructor: Veglia,Gianluigi
Description: Student may contact the instructor or department for information.

CHEM 4701 Inorganic Chemistry
3 credit(s); prereq [2311 or Concurrent registration is required (or allowed) in 2311], [3501 or Concurrent registration is required (or allowed) in 3501 or 3502 or Concurrent registration is required (or allowed) in 3502];
Instructor: STAFF
Description: Introduction to inorganic chemistry at an advanced level. Periodic trends. Structure and bonding concepts in compounds where s and p electrons are important. Descriptive chemistry of solids and transition metal compounds. Emphasis on transition metal chemistry. Advanced topics in main group and materials chemistry.
Style: 100% Lecture.
Grading: 60% mid exam, 25% final exam, 15% quizzes.

CHEM 4711W Advanced Inorganic Chemistry Lab
A-F only, 2 credit(s); prereq 4701, chem major; Meets CLE req of Writing Intensive;
Instructor: Mann,Kent R
Description: Student may contact the instructor or department for information.

CHEM 4725 Organometallic Chemistry
3 credit(s); prereq 4701 or equiv, chem major or instr consent ;
Instructor: Ellis,John Emmett
Description: Student may contact the instructor or department for information.

CHEM 5210 Materials Characterization
A-F only, 4 credit(s); prereq grad student or instr consent;
Instructor: Penn,Lei
Description: Student may contact the instructor or department for information.

CHEM 5501 Introduction to Thermodynamics, Kinetics, and Statistical Mechanics
A-F only, 3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V];
Instructor: Gao,Jiali
Description: Student may contact the instructor or department for information.

CHEM 5502 Introduction to Quantum Mechanics and Spectroscopy
A-F only, 3 credit(s); prereq [1022 or 1032H], [MATH 2263 or Concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or Concurrent registration is required (or allowed) in MATH 2374 or MATH 2243 or Concurrent registration is required (or allowed) in MATH 2243 or MATH 2373 or Concurrent registration is required (or allowed) in MATH 2373], [PHYS 1302 or PHYS 1402V];
Instructor: Gao,Jiali
Description: Student may contact the instructor or department for information.

CHEM 5755 X-Ray Crystallography
A-F only, 4 credit(s); prereq Chem grad student or instr consent;
Instructor: Youn Jr,Victor G
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 Polymer Chemistry
4 credit(s); 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: Hoyle, 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 8380 Special Topics in Organic Chemistry: Green Chemistry
1 credit(s), max credits 4, 1 completion allowed; prereq grad chem major or instr consent;
Instructor: Blank, David A
Description: Student may contact the instructor or department for information.

CHEM 8412 Chemical Biology of Enzymes
4 credit(s); prereq 2302 or equiv;
Instructor: Veglia, Gianluigi
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: Blank, David A
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: Pierre, Valerie Christine
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: Pierre, Valerie Christine
Description: Student may contact the instructor or department for information.

CHEM 8725 Organometallic Chemistry
4 credit(s); prereq 4701 or equiv, grad chem major or instr consent;
Instructor: Ellis, John Emmett
Description: Student may contact the instructor or department for information.

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 or sources including monographs, articles, novels, primary documents, movies and documentaries in order to explore defining elements of the lived experience of Chicanas and Chicanos. The goal of this class is to help you understand the processes out of which Chicana/o identities are formed, articulated, practiced, transformed and questioned through first-hand and historical evidence and contemporary scholarship. Style: 35% Lecture, 15% Film/Video, 35% Discussion, 10% Small Group Activities, 5% Guest Speakers.

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: 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 36 hours of tutoring and mentoring in culturally grounded programs. 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. Students will also use what they learn in this course to affect legislative change. Style: 20% Lecture, 40% Discussion. presentations, Web-CT Grading: 20% reports/papers, 10% in-class presentation, 10% class participation, 10% problem solving, 50% other evaluations. 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: Topete, Daniel
Description: Student may contact the instructor or department for information.

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: Rodriguez, Lon B
Description: Student may contact the instructor or department for information.
CHIC 3275 Service Learning in the Chicano/Latino Community
3 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 36 hours of tutoring and mentoring in culturally grounded programs. 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. Students will also use what they learn in this course to effect legislative change.
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 Workers in the U.S.: Families, Work, and Advocacy
3 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 examine the larger community response, both in support of and against, organized farmworker groups and the role and power of the consumer in today's agricultural system. This course provides a solid foundation for students who wish to apply for summer positions with migrant farmworker organizations or agencies. Upper division undergraduates and graduate students. Fulfills Social Sciences Diversified Core and Cultural Diversity requirements.
Style: 40% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers.
Exam Format: multiple choice and short answer

CHIC 3446 Chicana/o History II: WWII, El Movimiento, and the New Millenium
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; Instructor: Mendoza, Louis Gerard
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/o 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/o.
Style: 35% Lecture, 15% Film/Video, 35% Discussion, 10% Small Group Activities, 5% Guest Speakers.

CHIC 3452 Xicana/Indigena Studies: History, Culture, and Politics
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; Instructor: Robles-Deleon, Idalia Patricia
Description: Student may contact the instructor or department for information.

CHIC 3507W Introduction to Chicana/o Literature
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Covarrubias, Alexandra Mendoza
Description: This introductory course will focus in large part on the use and function of feminine archetypes within the canon of Chicana/o literature. Students will be exposed to a variety of texts and writing styles and will learn to identify the themes and aesthetics that characterize Chicana/o literature in its many forms as well as understand the significance of the counter-narratives that Chicana/o literature presents. We will approach the readings from an intersectional perspective; analyzing works for the ways in which they confront not only race, class, sexuality and gender issues, but issues of transnationalism and globalization as well.
Style: 25% Lecture, 60% Discussion, 15% Student Presentation.
Grading: 25% reports/papers, 20% quizzes, 30% reflection paper, 10% in-class presentation, 10% class participation, 5% other evaluation. 2 short papers (15% each), final paper (25%), 5 quizzes- lowest score dropped (20%), group presentation (10%), and class participation (10%)

CHIC 3507W Introduction to Chicana/o Literature
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Mendoza, Louis Gerard
Description: Course Description & Goals This course will explore the cultural, intellectual, and socio-political traditions of Chicanas and Chicanos as they are represented in creative literature. We will examine various genres and forms of creative cultural expression and explore their significance as representations of social, cultural, and political life in the United States. The genres to be studied with an interdisciplinary approach include novels, short stories, drama, and poetry. We will utilize a multimedia approach to studying the different manifestations of these cultural forms. Emphasis will be placed on the study of literature and culture in historical context. The secondary readings will help provide historical context and a theoretical framework to facilitate our understanding of the forces which have shaped the lives of people of Mexican descent living in the United States. We will explore the values, assumptions, and philosophical concepts that have informed the development of ?ethnicity? in the U.S. and responses to the dominant and dominating cultural forms. The primary goal of this course is to familiarize students with Chicana/o literary discourse. The social narratives contained within the literature will offer insight into the often contentious relationship between an emerging ?minority? literature and mainstream culture and society.
Style: 35% Lecture, 10% Film/Video, 35% Discussion, 10% Small Group Activities, 10% Student Presentation.
Grading: 15% mid exam, 45% reports/papers, 15% quizzes, 15% journal, 10% in-class presentation.

CHIC 3672 Chicana/o Experience in the Midwest
3 credit(s); Meets CLE req of Cultural Diversity Theme; Instructor: Bueno, Marianne M.
Description: Student may contact the instructor or department for information.

CHIC 3752 Chicanas and Chicanos in Contemporary Society
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Rodriguez, Loni B
Description: Student may contact the instructor or department for information.
CHIC 3900 Topics in Chicano Studies
A-F only, 1-3 credit(s), max credits 6; Instructor: Topete,Daniel
Description: Student may contact the instructor or department for information.

CHIC 3993 Directed Studies
1-9 credit(s), max credits 16, 16 completions allowed; prereq instr consent ; Instructor: Torres PhD,Eden 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, 3 credit(s); Meets CLE req of Writing Intensive; Instructor: Torres PhD,Eden E.
Description: Student may contact the instructor or department for information.

CHIC 5374 Migrant Farmworkers in the U.S.: Families, Work, and Advocacy
3 credit(s); Instructor: Sass Zaragoza,Lisa
Description: This course examines the historical, legal and political forces which impact farmworkers lives and farmworker movements. We will study the interplay of ethnicity, class and gender as they pertain to social and economic marginalization of migrant workers. We examine the larger community response, both in support of and against, organized farmworker groups and the role and power of the consumer in today's agricultural system. This course provides a solid foundation for students who wish to apply for summer positions with migrant farmworker organizations or agencies. Upper division undergraduates and graduate students.充满了 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 completions allowed; prereq instr consent ; Instructor: Torres PhD,Eden E.
Description: Student may contact the instructor or department for information.

CPSY 1910W Freshman Seminar, Writing Intensive

Child Psychology
104 Child Development

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
in order to change this statement into action, we need to know what circumstances will lead to the best outcomes for children. In this course, we will learn about each phase of development, and address the factors that influence it. We will look to research to answer these questions, but the answers are not always clear. Consider these examples: Children raised in a home with domestic violence will have a high probability of negative outcomes, but how is it that some children show great resilience? We know that the early relationship that develops between the child and caregiver is essential to the healthy development of the child's socio-emotional and cognitive functioning; what is the effect of mothers returning to work within the first year of a child's life? Course Outline Lesson 1 The Nature of Development, Lesson 2 The Contexts of Development and Heredity and Prenatal Development, Lesson 3 First Adaptations, Lesson 4 Infant Cognitive Development, Lesson 5 Infant Social and Emotional Development, Lesson 6 Toddler Language and Thinking, Lesson 7 Toddler Social and Emotional Development, Lesson 8 Midterm Exam, Lesson 9 Cognitive Development in Early Childhood, Lesson 10 Social and Emotional Development in Early Childhood, Lesson 11 Cognitive Development in Middle Childhood, Lesson 12 Social and Emotional Development in Middle Childhood, Lesson 13 Physical and Cognitive Development in Adolescence, Lesson 14 Social and Emotional Development in Adolescence, Lesson 15 Developmental Psychopathology, Lesson 16 Final Exam


Style: 100% Web Based. Grading: 45% mid exam, 20% final exam, 30% reports/papers, 5% class participation.}

CPSY 4303 Adolescent Psychology
A-F only, 4 credit(s); prereq Psy 1001; Instructor: Warren, Henriette
Description: This undergraduate course examines psychological development during adolescence. The major goals include 1) gaining an understanding of the major theoretical perspectives on adolescent development, 2) identifying biological, cognitive and social processes of adolescence and the ways in which they interact to influence development, 3) recognizing the role that contextual factors play in shaping adolescent experiences, and 4) gaining familiarity with prominent research methods used in conducting studies of adolescent development. Class sessions will include a mixture of lectures, discussion, videos, and group activities.

Style: 80% Lecture, 10% Discussion, instructional videos. Grading: 45% mid exam, 20% final exam, 30% reports/papers, 5% class participation.
Exam Format: multiple choice

CPSY 4313 Disabilities and Development
4 credit(s); prereq 1001; Instructor: Abery,Brian Hinton
Description: The purpose of this course is to provide students with a broad understanding of disabilities and their impact upon child development, taking into consideration the ecology within which growth and maturation take place. Content areas covered will include: disabilities and the educational system, disability and the family, multi-cultural issues and disability, mental retardation, learning disabilities, attention deficit disorder, physical and health related disabilities, autism and traumatic brain injury, communication disorders, hearing and visual impairments, and emotional and behavioral challenges. When covering each disability, issues of etiology, identification, assessment, intervention and developmental outcome will be discussed. A number of additional disability-related topics will also be explored over the course of the semester. These include self-advocacy and self-determination, social inclusion, and ethical and legal issues.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 20% problem solving.
Exam Format: Multiple choice and essay

CPSY 4331 Social and Personality Development
A-F only, 4 credit(s); prereq 2301, Psy 1001; Instructor: Lingras,Katie
Description: Student may contact the instructor or department for information.

CPSY 4334W Children, Youth in Society
A-F only, 4 credit(s); prereq 2301; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive; Instructor: Reynolds,Arthur J.
Description: Student may contact the instructor or department for information.

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

CPSY 4994 Directed Research in Child Psychology
1-6 credit(s), max credits 8, 6 completions allowed; prereq 4 cr in CPsy, instr consent, dept consent; Instructor: STAFF
Description: This is an opportunity for students to assist in developmental research. Many opportunities are listed on our CPSY undergraduate advising board in Room 106. Possible tasks might include making phone calls to solicit subjects; scheduling and confirming appointments; updating information; filming subjects; coding data, entering data into a computer; tabulating data; analyzing data statistically; sitting with siblings during experiments; doing library research; collecting archival data. This list is not exhaustive. A contract and override are required to register. The student uses a contract as an opportunity to clarify opportunities, responsibilities, and desires, etc.
Style: 10% Discussion, 90% Laboratory.
Grading: 20% special projects, 70% laboratory evaluation, 10% problem solving.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Cicchetti PhD,Dante
Description: Student may contact the instructor or department for information.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Maratos,Michael P
Description: Student may contact the instructor or department for information.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Masten,Ann S.
Description: Student may contact the instructor or department for information.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Georgielli,Michael K
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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Thomas,Kathleen M
Description: Student may contact the instructor or department for information.

CPSY 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Pick Jr,Herbert L
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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Yonas,Albert
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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Georgielli,Michael K
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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: Crick,Nicki R
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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Weisberg, Richard A
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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Collins, W Andrew
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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Egeland, Byron R
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 completions 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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Yussen, Steve
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 completions 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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Koening, Melissa
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 completions 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 completions allowed; prereq 4 cr in CPsy, CPsy honors, instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Ge, Xiaojia
Description: Student may contact the instructor or department for information.

CPSY 4996 Field Study in Child Psychology
S-N only, 1-4 credit(s), max credits 8, 6 completions allowed; prereq 4 cr CPsy, instr consent;
Instructor: Benish, Amy Marie
Description: Student may contact the instructor or department for information.

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 completion 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: Gearingy PhD, Anne R
Description: Student may contact the instructor or department for information.

CPSY 5508 Infant Observation Seminar II
OPT No Aud, 1 credit(s); prereq 5506;
Instructor: Schultz, Susan Kristine
Description: Student may contact the instructor or department for information.

CPSY 8302 Developmental Psychology: Social and Emotional Processes
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit(s)</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Michael K</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Richard A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Megan R</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Byron R</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Kathleen M</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Steve</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Megan R</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Nicki R</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Abigail</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Maria D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Nicki R</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Abigail</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Maria D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Abigail</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Maria D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CPSY 8994</td>
<td>Research Problems in Child Psychology</td>
<td>1-6</td>
<td>Doctoral student or instr consent;</td>
<td>Abigail</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

4 credit(s); prereq Doctoral student, instr consent ;

Instructor: Collins, W. Andrew

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

CPSY 8321 Seminar: Current Issues in Teaching Developmental Psychology

1 credit(s), max credits 2; prereq CPSY doctoral student or instr consent;

Instructor: Warren, Henriette

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

CPSY 8360 Special Topics in Developmental Psychology: Mechanisms of Developmental Change

3 credit(s), max credits 21, 7 completions allowed; prereq Doctoral student;

Instructor: Sera PhD, Maria D

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

CPSY 8606 Advanced Developmental Psychopathology

3 credit(s); prereq Doctoral student or instr consent;

Instructor: Masten, Ann S.

Description: Student may contact the instructor or department for information.
CPSY 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 15, 15 completions allowed; prereq Doctoral student or instr consent; Instructor: Reynolds, Arthur J.
Description: Student may contact the instructor or department for information.

CPSY 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 15, 15 completions 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 completions allowed; prereq Doctoral student or instr consent; Instructor: Zelazo, Philip David
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, 10% written homework, 10% attendance, 10% class participation, 10% laboratory evaluation, 10% other evaluation. Character writing, vocabulary quizzes, tests. Exam Format: Listening, speaking, reading and writing

Chinese
453 Folwell Hall

CHN 1016 Accelerated Intermediate Modern Chinese
5 credit(s); prereq 1012 or 1015; oral/aural skills or speaker of other Chinese dialect recommended credit will not be granted if credit received for: 3021 or 3022; Instructor: Stone, JiNylaang
Description: Student may contact the instructor or department for information.

CHN 3022 Intermediate Modern Chinese
5 credit(s); prereq 3021; Instructor: Li, Chi-Ping
Description: Student may contact the instructor or department for information.

CHN 3022 Intermediate Modern Chinese
5 credit(s); prereq 3021; Instructor: Quan, JiHang
Description: Principal Instructor: JiHang Quan Recitation Leader: ChiPing Li, Jiangang Huang prereq 3021, 5.0 cr This course, the second segment of a two-semester course in intermediate modern Chinese language, is intended for students who have completed Chinese 3021 at U of MN or the equivalent. Students who have not completed Chinese 3021 but wish to register need the instructor's consent. The course will help students improve their ability to understand, speak, read, and write Chinese, and particularly aims to help students develop more sophisticated vocabulary and more complex sentence structures so that they can meet the standard of Chinese GPT. It will cover lessons 11-20 of the textbook "Integrated Chinese" Level 2 by Yuehua Liu, Tao-chung Yao et al (Chen & Tsui Company). By the end of the semester, students should be able to understand spoken Chinese, conduct fairly sustained conversations in Chinese, read Chinese articles of some sophistication, and write compositions in Chinese for general communication purposes. Class URL: http://www.all.umn.edu/chinese_language Class time: 40% lecture, 60% discussion Work load: exam(s), homework, quizzes, mid-term, and final Grade: 10% mid-semester exam(s),
15% final exam(s), 20% quizzes & tests, 30% class participation, 20% Homework; 5% vocab quizzes; Exam format: Listening comprehension, oral interview, reading comprehension, grammar, translation

CHN 3032 Advanced Modern Chinese
4 credit(s); prereq 3031 or equiv or instr consent;
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 (To Live or Shower).
Style: 30% Lecture, 30% Discussion, 30% Small Group Activities, 10% Student Presentation.
Grading: 20% mid exam, 20% final exam, 20% quizzes, 20% written homework, 5% attendance, 10% in-class presentation, 5% class participation.
Exam Format: multiple choice, fill the blanks, complete the sentences, etc.

CHN 3201 Chinese Calligraphy
2 credit(s);
Instructor: Zhang, Hong
Description: A beginning course in Chinese Calligraphy. Chinese language background is NOT required. Lectures include introducing various Chinese Calligraphy techniques and exposing students to Chinese Calligraphy history and the cultural background in general. Students will be taught to develop a sense of self-cultivation through practicing the art of Chinese Calligraphy. Exercises in the class will give students hands-on experience of proper use of Chinese brush and ink to perform Chinese calligraphy. Students will also have the opportunity to write a complete calligraphy art piece in terms of Chinese Couplet, Chinese Poems. In addition, students will be taught to understand the literature and meaning of the calligraphy projects. The Calligraphy book written by the instructor will be used.
Style: 30% Lecture, 10% Discussion. Classroom exercises, with instructor’s coaching students individually.
Grading: 30% special projects, 30% written homework, 30% attendance, 10% class participation, Homework assignments and special projects.

CHN 3202 Intermediate Chinese Calligraphy
2 credit(s); prereq 3201 or instr consent;
Instructor: Zhang, Hong
Description: This is the second semester of a two-semester sequence in Chinese Calligraphy. The course is designed for those who have completed the course CHN 3201. Students with Chinese Calligraphy background may also enroll with the permission of the instructor. The knowledge of Chinese language is NOT required. Students will learn more advanced writing techniques relating to the Chinese characters structure and composition. The regular script 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 calligraphy project. By the end of this course, students will be able to understand and appreciate the art of Chinese Calligraphy. The calligraphy book written by the instructor will be used in this course.
Style: 30% Lecture, 10% Discussion. Class room practice with instructor’s coaching students individually.
Grading: 30% special projects, 30% written homework, 30% attendance, 10% class participation. Class attendance and participation; homework assignments and special projects.

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 4004 Intermediate Modern Chinese
3 credit(s); prereq 4003, grad student;
Instructor: Li, Chi-Ping
Description: Student may contact the instructor or department for information.

CHN 4004 Intermediate Modern Chinese
3 credit(s); prereq 4003, grad student;
Instructor: Quan, Jiahong
Description: Principal Instructor: Jiahong Quan Recitation Leader: Chiping Li, Jiangang Huang prereq 3021, 5.0 cr This course, the second segment of a two-semester course in intermediate modern Chinese language, is intended for students who have completed Chinese 3021 at U of MN or the equivalent. Students who have not completed Chinese 3021 but wish to register need the instructor's consent. The course will help students improve their ability to understand, speak, read, and write Chinese, and particularly aims to help students develop more sophisticated vocabulary and more complex sentence structures so that they can meet the standard of Chinese GPT. It will cover lessons 11-20 of the textbook "Integrated Chinese" Level 2 by Yuehua Liu, Tao-chung Yao et al (Chen & Tsui Company). By the end of the semester, students should be able to understand spoken Chinese, conduct fairly sustained conversations in Chinese, read Chinese articles of some sophistication, and write compositions in Chinese for general communication purposes. Class URL: http://www.all.umn.edu/chinese_language Class time: 40% lecture, 60% discussion Work load: exam(s), homework, quizzes, mid-term, and final Grade: 10% mid-semester exam(s), 15% final exam(s), 20% quizzes & tests, 30% class participation, 20% Homework; 5% vocab quizzes; Exam format: Listening comprehension, oral interview, reading comprehension, grammar, translation.

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 (To Live or Shower).
Style: 30% Lecture, 30% Discussion, 30% Small Group Activities, 10% Student Presentation.
Grading: 20% mid exam, 20% final exam, 20% quizzes, 20% written homework, 5% attendance, 10% in-class presentation, 5% class participation.
Exam Format: multiple choice, fill the blanks, complete the sentences, etc.

CHN 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.
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, 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 12, 4 completions allowed; prerequisite 4042 or equiv or instr consent
Description: Prerequisite: 3-4 years of college Chinese or equivalent or instructor consent
Instructor: Zou, Zhen
Among modern Chinese thinkers, Lu Xun is the most critical of traditional Chinese system, society, and culture, and is the most representative intellectual in pushing China into modernity. If you can understand Lu Xun, you will have a good understanding of traditional and modern Chinese society and culture, as well as Chinese intellectuals? urgent sense of pushing China into the modern world. Naturally, reading Lu Xun is critical in understanding China?s New Cultural Movement in the early twentieth-century, a great challenge for many Western sinologists. In the Spring semester, we will study articles, short stories, and novelettes by Lu Xun. This will also help students greatly in understanding other important writers of the New Cultural Movement. The works we will study in this semester includes Lu Xun?s insights in Chinese people?s characteristics, the problems of the institution, oppression of the female, and the cause of China?s backwardness. Class discussion will focus on the use of the language, the social interpretation of the texts, and the Chinese cultural and philosophical messages found in those works. The course will be taught in standard modern Chinese (Mandarin). Class time: 65% Discussion, 30% Lecture, 5% Lab, film and internet. Work load: 10-20 Pages of reading per week, quizzes, 2 exams, oral reading presentation, and a final essay. Grade: 15% class participation, 15% quizzes, 20% midterm exam, 20% final exam, 10% reading presentation, 20% final essay. Exam format: Short answers and essay questions.

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

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

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

Civil Engineering

122 Civil Engineering Building

CE 5 Refresher Course for Civil Engineers
S-N only, 0 credit(s); prerequisite 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); prerequisite Lower div;
Instructor: LaPara, Timothy M
Description: Student may contact the instructor or department for information.

CE 3101 Computer Applications in Civil Engineering I
A-F only, 3 credit(s); prerequisite MATH 1272, PHYS 1301, IT;
Instructor: Voller, Vaughan Richard
Description: This course will present the computer as an engineering tool. The specific focus of the course will be problem solving using numerical methods on microcomputers. You will be programming and solving problems in a group format. This course is not a classic “computer programming” course. This course is for civil and geological engineers, and all tools, techniques, and concepts will be presented within these contexts. This course is specifically designed to address problems in all sub-disciplines represented within the Department of Civil Engineering. Main topics: Numerical methods -- (Numerical Integration, Linear and Non-linear Solvers, Differential Equations), Computer Tools -- (Use of Excel, Visual Basic, HTML, and MathCad), Problems Studied -- Contamination Transport, Forces in Structures, Groundwater Flow, Flow Systems, Consolidation. Style: 70% Lecture, 20% Discussion, 10% Laboratory. Grading: 25% mid exam, 35% final exam, 30% reports/papers, 5% quizzes. Exam Format: Open book, 5-6 problems.

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

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

CE 3201 Transportation Engineering
3 credit(s); prerequisite 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); prerequisite IT, AEM 3031; Credit will not be granted if credit has been received for: GEOE 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: Schultz, Arturo Ernest
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: Novak, Paige J
Description: This course is an introduction to the field of environmental engineering. It is for undergraduate majors and non-majors. The course covers topics of global climate change, solid and hazardous waste treatment, air pollution, and water and wastewater treatment. A discussion of mass and energy balances and basic chemistry and microbiology is also presented.
Style: 75% Lecture, 25% Discussion.
Grading: 60% mid exam, 10% reports/papers, 10% quizzes, 20% problem solving.
Exam Format: Short answer and problems

CE 3502 Fluid Mechanics
A-F only, 4 credit(s); prereq [AEM 2012 or AEM 3031], Math 2373, [IT or ForP major];
Instructor: Gulliver, John Stephen
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: Gulliver, John Stephen
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: Eller, Tim
Description: Survey of broad areas in engineering project management and economics. Project planning, scheduling, and controlling; budgeting, staffing, task and cost control; communicating with, motivating, leading, and managing conflict among team members; engineering economics.

CE 4101W Project Management
3 credit(s); prereq Upper div IT or construction management; Meets CLE req of Writing Intensive;
Instructor: Andersen, Darrell
Description: Student may contact the instructor or department for information.

CE 4102W Capstone Design
A-F only, 4 credit(s); prereq 4301, 4401, 4501, 4502; Meets CLE req of Writing Intensive;
Instructor: Eickenberg, Paul Thomas
Description: Teams of 3 - 5 students solve civil engineering problems posed by practicing engineers (mentors). Student work progresses from problem description and formulation of objectives, through conceptual solutions, preliminary planning and analysis, design and environmental impact assessment, to feasibility plans and specifications, cost analysis, and recommendations. Each team makes three presentations. Draft reports and a final project report are reviewed.
Style: 5% Lecture, 10% Discussion, 50% Small Group Activities, 20% Student Presentation, 10% Demonstration, 5% Guest Speakers. Team work on an engineering project
Grading: 60% reports/papers, 5% attendance, 30% in-class presentation, 5% class participation.

CE 4102W Capstone Design
A-F only, 4 credit(s); prereq 4301, 4401, 4501, 4502; Meets CLE req of Writing Intensive;
Instructor: Stefan, Heinz G
Description: Teams of 3 - 5 students solve civil engineering problems posed by practicing engineers (mentors). Student work progresses from problem description and formulation of objectives, through conceptual solutions, preliminary planning and analysis, design and environmental impact assessment, to feasibility plans and specifications, cost analysis, and recommendations. Each team makes three presentations. Draft reports and a final project report are reviewed.
Style: 5% Lecture, 10% Discussion, 50% Small Group Activities, 20% Student Presentation, 10% Demonstration, 5% Guest Speakers. Team work on an engineering project
Grading: 60% reports/papers, 5% attendance, 30% in-class presentation, 5% class participation.

CE 4121 Computer Applications in Civil Engineering II
A-F only, 3 credit(s); prereq CE or upper div GeoE, 3101, Math 2243, Math 2263; Credit will not be granted if credit has been received for: GEOE 4121;
Instructor: Barnes, Randal J
Description: Student may contact the instructor or department for information.

CE 4180 Independent Study II
1-4 credit(s), max credits 4, 4 completions allowed; prereq instr consent;
Instructor: STAFF
Description: Special studies in planning, design, or analysis of civil engineering systems. Individual lab research problems, literature studies, reports. Supervised by staff.

CE 4190 Engineering Co-op Assignment
S-N only, 2-6 credit(s), max credits 6, 1 completion 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, Nikolas
Description: Student may contact the instructor or department for information.

CE 4253 Pavement Engineering and Management
4 credit(s); prereq [3201, 3301, 3402, upper div IT] or grad student 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 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 Ph.D., Otto D
Description: Student may contact the instructor or department for information.

CE 4401 Steel and Reinforced Concrete Design
A-F only, 4 credit(s); prereq Grade of at least C- in 3401, concurrent enrollment 3402, [upper div IT or grad student];
Instructor: Shield, Carol K
Description: Style: 90% Lecture, 10% Small Group Activities. Grading: 20% mid exam, 20% final exam, 40% written homework, 20% additional semester exams.
Exam Format: two 1 hour exams, one two-hour in-class midterm and one two-hour final exam

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 4501 Hydrologic Design
A-F only, 4 credit(s); prereq 3502;
Instructor: Mohseni, Omid
Description: Student may contact the instructor or department for information.

CE 4502 Water and Wastewater Treatment
A-F only, 3 credit(s); prereq 3501;
Instructor: LaPara, Timothy M
Description: Student may contact the instructor or department for information.

CE 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, 3 credit(s), max credits 4, 3 completions allowed; prereq instr consent;
Instructor: Marshall, Julian
Description: Course title: Design for Sustainable Development. This course provides hands-on training in evaluating technologies to improve health and quality of life in developing countries. Students work in teams, and in cooperation with students in India, to design a business serving low-income communities in Mumbai, India, with a focus on clean water or clean energy. At the end of the course, teams compete for funding to launch their business, including funds to travel to India and to attend a 6-week business "incubator" in Minnesota. Admission to the course is by application (see below). Students from a variety of backgrounds -- for example, public health, engineering, design, and business -- are encouraged to apply. This course is offered in collaboration with the Carlson School and the Abara Institute. See http://personal.ce.umn.edu/~marshall/teaching.php for more information. Applications Applications should be submitted to Teresa Rosen (rosen478@umn.edu; 122 Civil Engineering) by noon on December 1, 2009. Applications received after that time will be considered if space remains. Applications should consist of a single document with (1) a CV, including student's major, GPA, and relevant coursework, and (2) a brief essay describing why you would like to take this course, your relevant experience and expertise, and how you would contribute to a multidisciplinary team. Applications are not expected to propose a specific idea for the competition. The text must be Times New Roman size 12 font, with a strict length limit of 3 pages (combined CV and essay). Please include a page number and your name in the footer of each page. When emailing Teresa Rosen, please include the text "CE 5180: Design for Sustainable Development" in the subject line.

CE 5211 Traffic Engineering
3 credit(s); prereq 3201, Stat 3201 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: Arnold, Bill
Description: Student may contact the instructor or department for information.

CE 8200 Seminar: Transportation
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Davis, Gary Arnold
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: Pick up a newspaper or watch the news and you're likely to find a story about transportation problems in the Twin Cities, most notably sprawl and congestion, and the multitude of problems that come with them -- economic inefficiencies, global warming, air pollutants, oil dependency, social inequalities, 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, rail investments, freeway expansion, value pricing, and so on. These policies will 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 new development is likely to affect patterns of travel for residents of the area, which may in turn demand new transportation investments over time. Therefore, an understanding of land use-transportation interactions is critical to the solution of transportation and its related problems confronting large metropolitan areas. In this course, the topics covered are not linear, and discussions may sometimes jump ahead or jump back or otherwise run in circles. I have chosen to provide a balance between theory and research, and policy and practice; all students will benefit from exposure to all of these topics. Naturally, some students will find some topics of more interest than others, and the assignments are designed to allow students to explore in more depth than is possible in class a topic of their own choosing. 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 will be able to understand the theories behind land use and transportation interactions; steps in spatial evolution of cities related to transportation infrastructure; the impacts of
transportation infrastructure on land use development and impacts of land use on travel patterns; ? urban transportation planning process; ? land use and transportation policy instruments, and their political barriers; Further, this course aims to promote team work through assignments, case studies, and labs. This course also trains students to deliver their ideas through paper and oral communication. The open debates will encourage students to become an independent and deliberate thinker. All are essential for successful planners and policy makers.

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 for information.

CE 8216 Urban Traffic Operations
3 credit(s);
Instructor: Liu, Henry X.
Description: Student may contact the instructor for information.

CE 8300 Seminar: Geomechanics
S-N only, 1-3 credit(s), max credits 4, 4 completions allowed;
Credit will not be granted if credit has been received for:
GEOE 8300;
Instructor: Labuz, Joseph F
Description: Student may contact the instructor for information.

CE 8321 Thermoporoelasticity
A-F only, 4 credit(s); prereq IT grad student, 5321 or GEOE 5321 or instr consent; Credit will not be granted if credit has been received for: GEOE 8321;
Instructor: Detournay, Emmanuel Michel
Description: Student may contact the instructor for information.

CE 8351 Advanced Groundwater Mechanics I
A-F only, 3 credit(s); prereq 4351 or GEOE 4351, IT grad student or instr consent; Credit will not be granted if credit has been received for: GEOE 8351;
Instructor: Stolarski, Henryk Konstanty
Description: Student may contact the instructor for information.

CE 8400 Seminar: Structures
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Stolarski, Henryk Konstanty
Description: Student may contact the instructor 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 for information.

CE 8490 Special Topics
A-F only, 1-4 credit(s), max credits 8; prereq instr consent;
Instructor: Wójkiewicz Jr, Steven F
Description: Student may contact the instructor for information.

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

CE 8502 Environmental Fluid Mechanics II
A-F only, 4 credit(s); prereq 8501 or instr consent;
Instructor: Hill, Kimberly M
Description: Student may contact the instructor 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 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 for 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 for 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 for department.

CLCV 3711 Classics of Literary Criticism
3 credit(s); prereq 1 course in literature, 2nd course in literature or philosophy or instr consent;
Instructor: Clayton, Tom
Description: Critical reading and discussion of selected major works and writers from classical antiquity to the twentieth century, including Plato, Aristotle, Horace, and Longinus; and English critics from Sir Philip Sidney to T. S. Eliot, including Alexander Pope, Samuel Johnson, William Wordsworth, S. T. Coleridge, and others. Some of the works are themselves in recognized literary forms, as in dialogues (Plato, Wilde) or in verse (Horace, Pope). Some writers address primary principles and issues (Plato, Aristotle, Sidney, others), and Aristotle laid the foundation for much that has been written since, asking of any work, in effect, “What is it(s) for(m?” Others address literary works themselves, especially (Longinus, Dryden, Johnson, Coleridge, Eliot). Coleridge wrote half-seriously that everyone is born an Aristotelian or a Platonist, a position taken up in something of a classic. A basic aim of this course is to cultivate a clear sense of the principles, criteria, and practices involved in the criticism of works we identify as literary (and of much else); and of the thinking by which we arrive at them. Attention will be paid also to such central terms and concepts as literature, and to the curious contention that there is no such thing except by arbitrary privileging, which is refuted daily both on reflection and in practical experience.
Style: 40% Lecture, 45% Discussion. Quizzes and presentations Grading: 20% mid exam, 40% final exam, 15% reports/papers, 15% quizzes, 10% other evaluation. Overall performance including attendance
Exam Format: Mostly essay, some objective questions

CLCV 3993 Directed Studies in Classical Civilization
1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;
CNES 1003 World of Rome
3 credit(s); prerequisite will not be granted if credit received for: CLAS 1007; Meets CLE req of Historical Perspective Core;
Instructor: Cole, Spencer E
Description: In this course we will ask ourselves: why does Rome refuse to go away? What is it about ancient Rome that captured the imaginations of Shakespeare and the framers of the U.S. Constitution as well as Hollywood and HBO? The course examines the world of ancient Rome from early Etruscan and Eastern origins to the Christian Rome of late antiquity. We will explore the diverse mix of cultures and religions that converged in this great Mediterranean melting pot and chart the rise of the West’s first great superpower. Through art, literature, and archeology we will study Roman imperialism and civil wars as well as political institutions, class structures, gender roles, sexuality, entertainment, and the rhythms of daily life. Weekly Quizzes 30%, Midterm 30%, Final 40%.
Style: 75% Lecture, 25% Discussion.
Grading: 30% midterm exam, 40% final exam, 30% quizzes.

CNES 1042 Greek and Roman Mythology
4 credit(s); prerequisite 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: Smith, Stephen
Description: The gods and heroes of Greek and Roman mythology have appeared in our art, literature, and popular culture for centuries. Mythology, however, is more than just a collection of stories. The myths of the Greeks and Romans, like those of any culture, reflect the hopes, concerns, fears, and history of the societies that produced them. In this course we shall examine the major Greek and Roman myths, looking not only at the stories and characters themselves but also at how they reflect differing conceptions of the world. This course fulfills the liberal education requirement of Humanities. Other. There is no prerequisite.

CNES 1042 Greek and Roman Mythology
4 credit(s); prerequisite 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: Woods, Heather A
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fees and financial aid restrictions. This course provides an introduction to the myths of ancient Greece and Rome. These fascinating stories have narrative charm and power; they also convey important messages about nature and human existence. When they were originally told, they were not only forms of entertainment but also forms of communication and instruction. Although they may no longer be used in the same ways, Greek and Roman myths still exercise tremendous influence in our world. From obvious symbols such as those used in advertisements, brand names, and other forms of popular culture to the topics and characters presented in philosophy, literature, art, and music, we can see that many of the issues explored in Greek and Roman mythology are as relevant today as they were thousands of years ago. In this course you will have the opportunity to study Greek and Roman myths in a number of ways. For example, you will do an online search for information about the gods and a map assignment of the mythological places and characters about which you will read; you will also read several tragic dramas and one of the great Greek epics and will write critical essays on those you find the most interesting; and you will have the chance to become a creator of myths yourself. At the conclusion of this course, you should be able to: ? describe the main Greek and Roman gods and the major myths associated with them; ? discuss plot, theme, and interpretation of several Greek and Roman myths; ? discuss some of the major theories of myth interpretation; and ? demonstrate a sensitivity to the possible definitions and uses of myth. Course Materials: Morford, Mark P. O., and Robert J. Lenardon. Classical Mythology. 7th ed. New York: Oxford University Press, 2003. Hesiod. Works and Days. Theogony. Translated by Stanley Lombardo. Indianapolis: Hackett, 1993. Euripides. Ten Plays. Translated by Paul Roche. New York: Signet Classic, 1998. Sophocles. The Three Theban Plays. Translated by Robert Fagles. New York: Penguin, 1984. Homer. The Odyssey. Translated by Robert Fagles. New York: Penguin, 1996. Instructor e-mail: wood0523@umn.edu
Style: 100% Web Based.
Grading: 15% midterm exam, 15% final exam, 30% reports/papers, 40% special projects. Also 1 WebCT assignment and 1 practice exam required but not graded. Please see uploadable syllabus for more information.
Exam Format: Supervised, in-person (not online) exams.

CNES 1042H Honors Course: Greek and Roman Mythology 4 credit(s); prerequisite Honors or inst instr consent; Credit will not be granted if credit has been received for: CNES 1042; Meets CLE req of Other Humanities Core;
Instructor: Smith, Stephen
Description: The gods and heroes of Greek and Roman mythology have appeared in our art, literature, and popular culture for centuries. Mythology, however, is more than just a collection of stories. The myths of the Greeks and Romans, like those of any culture, reflect the hopes, concerns, fears, and history of the societies that produced them. In this course we shall examine the major Greek and Roman myths, looking not only at the stories and characters themselves but also at how they reflect differing conceptions of the world. This course fulfills the liberal education requirement of Humanities. Other. There is no prerequisite.

CNES 1046 Technical Terminology for the Health Professions 3 credit(s); prerequisite will not be granted if credit received for: CLAS 1148;
Instructor: Willey, Andrew James
Description: This is a fully online section offered online through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fees and financial aid restrictions. In this course you will be learning a new language: Medical Terminology. Although only used in a specialized, technical environment (you cannot order a train ticket in Medical Terminology) it is nevertheless a vocabulary in its own right, with its own history and rules of morphology (word-formation). This course emphasizes linguistics and etymology in learning Medical Terminology. Rather than attempt to impart all the specialized vocabulary necessary for the study of, e.g. anatomy or physiology, in this course you will learn how medical terms are constructed from Greek and Latin prefixes, roots, and suffixes. You will also learn by heart most of the commonly found roots of medical terms. Armed with this knowledge, you will have the skills and knowledge to “decode” or “translate” unfamiliar terms as you come upon them. In addition,
you will also possess a solid base of vocabulary to build upon--whatever your future involvement in the health professions may be, as a doctor, nurse, occupational therapist, or simply as an occasional patient. Course Outline: After completing this course, you should be able to: 1. Give the component parts (prefixes, roots, suffixes, and combining vowels) used to build common medical terms; 2. Divide medical terms into their component parts; 3. Build, spell, pronounce, and define medical terms; and 4. Provide etymologies (word-histories) for basic roots of medical language. Course Materials -- Rice, Jane. The Terminology of Health & Medicine: A Self-Instructional Program (with CD-ROM). Upper Saddle River, NJ: Prentice Hall, 2003. --Scarborough, John. Medical and Biological Terminologies: Classical Origins. Norman, OK: University of Oklahoma Press, 1998. Supplemental Materials: Additional reading materials are included in a course packet sent to you. They consist of one reprinted article entitled Fundamentals of Medical Etymology and 15 Word Elements Study Sheets that will reinforce the content of the Rice textbook. (Please see the uploaded syllabus for more information.) Instructor e-mail: wille201@umn.edu

Style: 100% Web Based.
Grading: 40% final exam, 60% quizzes. Quizzes: 350 possible points. Exam: 115 possible points "Only the 14 best quizzes are counted towards the final grade (the lowest score is dropped); if only 14 quizzes are submitted, all are counted. See the syllabus for more information.

Exam Format: Supervised, in-person (not online) exam.

CUNES 1082 Jesus in History
3 credit(s); Credit will not be granted if credit has been received for: RELS 1082; Meets CLE req of Historical Perspective Core;
Instructor: Sellew, Philip
Description: In this course we study Jesus of Nazareth in his original setting (first-century Jewish Palestine) and then his role in American culture. How did the image of Jesus shift in changing cultural circumstances? How do modern scholars approach the historical figure of Jesus? What specific issues and problems emerge as we try to apply scholarly methods of inquiry to an ancient person who is still worshiped daily almost 2000 years after his death? We ask how Jesus fit within his own world - Jewish, Greek, and Roman. How unusual was Jesus in his own day? What were his intentions? What attracted people to him? What led to his arrest, trial, and execution? We consider the various stories told in the gospel writings of the early churches about Jesus the healer, Jesus the teacher, Jesus the prophet, Jesus the man on a (temporary) visit from Heaven. We ask whether or how we might manage to correlate these competing portraits of Jesus. Structure: We have two lectures and one discussion section each week Conversation is always welcome. We engage in close readings of the Gospel of Mark, thought to be the oldest gospel that still survives intact, as well as parts of other biblical and apocryphal texts from ancient Christianity. Each student writes six brief reports (1-2 pp.) on assigned topics or problems; these reports form the basis of discussion in our midweek sections. Brief quizzes each week test reading comprehension.
Style: 60% Lecture, 25% Discussion, 15% Small Group Activities.

CUNES 1201 The Bible: Context and Interpretation
3 credit(s); Credit will not be granted if credit has been received for: RELS 3201; Meets CLE req of Literature Core;
Instructor: Levinson PhD,Bernard M
Description: The course attempts to get behind the overlay imposed by modern culture upon the Old Testament/Hebrew Bible and to read it on its own terms. In order to do so, students will explore the historical, cultural, literary, and religious background of ancient Near East. We will read texts from ancient Mesopotamia, Canaan (Ugarit), and Israel, and discuss both the ideas found in them and their literary artistry. After investigating the literature of Israel's neighbors, we will read biblical literature in dialogue with these stories, intellectually analyzing the narratives of the creation of the world, the great flood story, the idea of divine revelation, and the significance of law. Specific topics to be dealt with include: God, creation, fate, the point of human life, and the meaning of history. The course teaches students how to read closely and to think critically about the meaning of a text. Students will be asked to read primary sources for specific questions of content and meaning, frequently with the help of assignment sheets, and to learn a methodology for deciding between right and wrong answers. The skills thereby learned will assist students with any other course in the Liberal Arts. The assumptions of the course are academic and secular, as required by the First Amendment. Consequently, the course does not address personal religious belief or matters of faith. All texts and all religious traditions will be examined analytically. Students are expected to understand and master this approach, which includes questioning conventional cultural assumptions about the historical composition and authorship of the Bible. Willingness to ask such questions and openness to new ways of thinking and reading are essential to successful participation in the course.
Style: 90% Lecture, 10% Discussion.
Grading: 20% mid exam, 25% final exam, 30% reports/papers, 5% written homework, 20% additional semester exams. Regular very short homework assignments are collected; best 10 out of 12 are counted. There will be two mid-term exams each worth 20%. There will be two short papers each worth 15%.
Exam Format: Each exam is 50% essay and 50% multiple choice.

CUNES 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 Perspectives Theme; meets CLE req of Other Humanities Core;
Instructor: Cooper,Frederick A
Description: The purpose of this course is to offer an introduction to the visual arts of those ancient cultures which contributed to the development of western civilization; namely, Egyptian, Babylonian, Assyrian, Phoenician, Aegean, Etruscan, Roman, and Early Christian/Byzantine. The lectures will focus on a selecton of importent works, but will include discussions of appreciation and style as well as the larger social, religious and visual ideas of early cultures. The requirements of the course are geared for students with no previous experience or study in this discipline.
Style: 80% Lecture, 10% Discussion, 10% Field Trips, review sessions; museum discussion
Grading: 33% mid exam, 33% final exam, 33% reports/papers.

CUNES 3035 Classical Myth in Western Art
4 credit(s); prerequisite credit will not be granted if credit has been 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.

CUNES 3152 Art and Archaeology of Ancient Greece
4 credit(s); Credit will not be granted if credit has been received for: ARTH 3152; Meets CLE req of Other Humanities Core;
Instructor: Berlin,Andrea
Description: This course will introduce you to two disciplines: modern archaeology and the culture of ancient Greece. Archaeologists study the physical detritus of past lives in order to explain how people lived, what they valued, and how their world changed. Archaeologists recover objects and buildings via excavation, and also date, compare, and evaluate those remains, which they see as receptacles of encoded information about bygone times. We will examine a very long piece of history: from about 10 000 BC (before Christ) to 31 B.C. The ancient Greeks created rich and varied material remains, including palaces, temples, and homes (rich and poor); statues, paintings, and fine tableware's; coins, loomweights, and grave markers (and more!). You will learn what they created, what they admired, and what that tells us about their lives and their values. In the process, you will also learn a thing or two not only about their material world, but our own.
Style: 75% Lecture, 25% Discussion.
Schedule.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010.

CNES 3201 The Bible: Context and Interpretation
3 credit(s); prereq Knowledge of Hebrew not required; Credit will not be granted if credit has been received for: RELS 3201; Meets CLE req of Literature Core;
Instructor: Levinson PhD, Bernard M
Description: The course attempts to get behind the overlay improved by modern culture upon the Old Testament/Hebrew Bible and to read it on its own terms. In order to do so, students will explore the fascinating literature and religion of the ancient Near East. We will read texts from ancient Mesopotamia, Canaan (Ugarit), and Israel, and discuss both the ideas found in them and their literary artistry. After investigating the literature of Israel's neighbors, we will read biblical literature in dialogue with these stories, intellectually analyzing the narratives of the creation of the world, the origin of life, the great flood story, the idea of divine revelation, and the significance of law. Specific topics to be dealt with include: God, creation, fate, the point of human life, and the meaning of history. The course teaches students how to read closely and to think critically about the meaning of a text. Students will be asked to read primary sources for specific questions of content and meaning, frequently with the help of assignment sheets, and to learn a methodology for deciding between right and wrong answers. The skills thereby learned will assist students with any other course in the Liberal Arts. The assumptions of the course are academic and secular, as required by the First Amendment. Consequently, the course does not address personal religious belief or matters of faith. All texts and all religious traditions will be examined analytically.

Students are expected to understand and master this approach, which includes questioning conventional cultural assumptions about the historical composition and authorship of the Bible.

Willfulness to ask such questions and openness to new ways of thinking and reading are essential to successful participation in the course.

Style: 90% Lecture, 10% Discussion.

Grading: 20% mid exam, 25% final exam, 30% reports/papers, 5% written homework, 20% additional semester exams. Regular very short homework assignments are collected; best 10 out of 12 are counted. There will be two mid-term exams each worth 20%. There will be two short papers each worth 15%.

Exam Format: Each exam is 50% essay and 50% multiple choice.

CNES 3601 Sexuality and Gender in Ancient Greece and Rome
3 credit(s);
Instructor: Nappa, Christopher
Description: An understanding of ancient expectations about gender, sexuality, and sexual behavior is both necessary for understanding classical literary texts and Greco-Roman history and important for the role it often plays in contemporary debates about sexuality and the body. There is an extensive body of evidence (textual and visual) from ancient Greece and Rome, but it poses certain problems of methodology not always faced in the study of sexuality in the modern world and generally alien to students. This course seeks not only to expose students to "facts" about ancient sexuality, but to survey the range of evidence that exists, and help them confront the problems that arise from studying primary sources from the ancient world. The course will also expose students to some of the main debates among scholars of ancient sexuality: the so-called Dover model of same-sex behavior in classical Greece, the relevance (and reliability) of Foucault's work on antiquity, the functions of the frequent depictions of rape in classical (especially Roman) literature, the sexualization of the figure of the Roman emperor, and the limits of the evidence for authentic female voices in classical texts. Readings will come from ancient sources in translation, modern scholarly accounts of antiquity, and works on theory and method in the study of gender and sexuality.

This course is an advanced version of CNES 3601. All students registered for CNES 3601 will meet the same requirements whether they are undergraduate or graduate students.

Style: 50% Lecture, 25% Discussion, 25% Web Based.

Grading: 15% mid exam, 15% final exam, 50% reports/papers, 20% class participation.

Clinical Laboratory Science

D-242 Mayo (Box 609 UMHc)

CLS 5090 Special Laboratory Methods
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq instr consent;
Instructor: Wells, Carol Lee
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLS 5100</td>
<td>Virology, Mycology, and Parasitology for Medical Technologists</td>
<td>Zitterkopf,Nicole Lee</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5120</td>
<td>Seminar: Clinical Laboratory Science</td>
<td>Panoskaltsis-Mortari PhD,Angela</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5121</td>
<td>Journal Presentations</td>
<td>Panoskaltsis-Mortari PhD,Angela</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5125</td>
<td>Practicum Teaching</td>
<td>Tsai,Michael Y</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5202</td>
<td>Hematology II</td>
<td>Swinehart,Cheryl D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5203</td>
<td>Hemostasis</td>
<td>Swinehart,Cheryl D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5204</td>
<td>Clinical Chemistry II: Lecture</td>
<td>Spannaus-Martin,Donna J</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5205</td>
<td>Clinical Chemistry II: Laboratory</td>
<td>Spannaus-Martin,Donna J</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5501</td>
<td>Introduction to Transfusion Medicine</td>
<td>George,Joanna L</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5502</td>
<td>Introduction to Transfusion Medicine: Laboratory</td>
<td>George,Joanna L</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5768</td>
<td>Advanced Hematology</td>
<td>Larsen,Karen B</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5864</td>
<td>Research Seminar</td>
<td>Tsai,Michael Y</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 5865</td>
<td>Departmental Seminar</td>
<td>Furocht,Leo T</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 8193</td>
<td>Advanced Topics in Clinical Chemistry</td>
<td>Tsai,Michael Y</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLS 8194</td>
<td>Research on Clinical Laboratory Problems</td>
<td>Swinehart,Cheryl D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

**Clinical Laboratory Sciences Program**

15-170 Phillips Wangensteen Bldg (MMC 711)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLSP 4092</td>
<td>Honors Program: Laboratory Methods</td>
<td>Spannaus-Martın,Donna J</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLSP 4101</td>
<td>Virology, Mycology, and Parasitology for Clinical Laboratory Scientists</td>
<td>Zitterkopf,Nicole Lee</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLSP 4202</td>
<td>Hematology II</td>
<td>Swinehart,Cheryl D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLSP 5204</td>
<td>Clinical Chemistry II: Lecture</td>
<td>Swinehart,Cheryl D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLSP 5501</td>
<td>Introduction to Transfusion Medicine</td>
<td>Swinehart,Cheryl D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CLSP 5768</td>
<td>Advanced Hematology</td>
<td>Swinehart,Cheryl D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
medical technology students.

**Style:** 66% Lecture, 33% Laboratory.

**Exam Format:** multiple choice

**CLSP 4263 Comparative Hemostasis**

A-F only, 1 credit(s);

Instructor: Swinehart, Cheryl D

**Description:** Lecture course covering hemostasis in humans. Theory of hemostasis and laboratory tests of plasma and platelets will be discussed. Target audience: Veterinary Medicine students

**Style:** 100% Lecture.

**Exam Format:** Multiple choice.

**CLSP 4301 Urinalysis**

A-F only, 1 credit(s); prereq CLSP student;

Instructor: Spannaus-Martin, Donna J

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

**CLSP 4304 Clinical Chemistry II: Lecture**

A-F only, 2 credit(s); prereq [4302 or 5302], two organic chem courses with lab, one biochem course;

Instructor: Spannaus-Martin, Donna J

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

**CLSP 4305 Clinical Chemistry II: Laboratory**

A-F only, 2 credit(s); prereq [4302 or 5302], two organic chem courses with lab, one biochem course;

Instructor: Spannaus-Martin, Donna J

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

**CLSP 4501 Introduction to Transfusion Medicine**

A-F only, 2 credit(s);

Instructor: George, Joanna L

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

**CLSP 4502 Introduction to Transfusion Medicine: Laboratory**

A-F only, 2 credit(s); prereq 4401 or 5401;

Instructor: George, Joanna L

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

**CLSP 4601W Management and Professional Issues**

A-F only, 2 credit(s), max credits 4; prereq 4602, CLSP student; Meets CLE req of Writing Intensive;

Instructor: Wiesner, Stephen Michael

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

**CLSP 4701 Applied Diagnostic Microbiology**

S-N only, 2 credit(s); prereq 4102, 4101 enrolled CLSP student, instr consent;

Instructor: Brennecke, Patricia Johnson

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

**CLSP 4702 Applied Clinical Hematology/Hemostasis**

S-N only, 2 credit(s); prereq 4201, 4202, 4203, enrolled CLSP student, instr consent;

Instructor: Brennecke, Patricia Johnson

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

**CLSP 4703 Applied Clinical Chemistry and Urinalysis**

S-N only, 2 credit(s); prereq 4301, 4302, 4304, 4305, enrolled CLSP student, instr consent;

Instructor: STAFF

**Description:** Application of basic methods and techniques in the clinical chemistry lab. Upon completion of the chemistry rotation, the student will be able to: Organize and take responsibility for the performance of selected methods. Perform the procedure with limited supervision, maintain accurate records, while following all prescribed laboratory safety procedures, recognize signs of instrument malfunction, perform necessary corrective measures, and clean up area. Obtain appropriate blood samples by venipuncture. Handle specimens properly once they are received in the laboratory. Understand the principles of clinical chemistry methods presented during the course. Describe the principles of instruments covered during the course. Understand the clinical usefulness of laboratory results. Perform routine urinalysis according to laboratory protocol. Target audience: medical technology students after they have completed their senior medical technology courses. Course is scheduled at various clinical/hospital sites.

**Style:** 100% Laboratory.

**Grading:** 5% in-class presentation, 95% laboratory evaluation.

**CLSP 4704 Applied Transfusion Medicine**

S-N only, 2 credit(s); prereq 4501, 4502, enrolled CLSP student, instr consent;

Instructor: Brennecke, Patricia Johnson

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

**CLSP 4705 Specialty Rotation**

S-N only, 1 credit(s); prereq Enrollment in CLS program;

Instructor: Brennecke, Patricia Johnson

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

**CLSP 4901 Special Laboratory Methods**

1-3 credit(s), max credits 3, 1 completion allowed; prereq CLSP student, instr consent;

Instructor: Spannaus-Martin, Donna J

**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:** Topic: Animal Cognition. Obviously many nonhuman animals sense and react to their environments. But do they have feelings, perceptions, desires, intentions, emotions, beliefs, etc? And do they think, infer, and reason as do humans? First some negative answers will be considered, by some psychologists but mainly by philosophers. Then, and for most of the course we will examine research by cognitive ethologists indicating that grey parrots, dolphins, chimpanzees and other animals not only employ the higher order cognitive capacities of humans, but some possess a primitive language. The negative views will be contained in handouts. The positive views will be found in books on order in the UM bookstore: Readings in Animal Cognition and The Cognitive Animal.

**CGSC 8410 Perspectives in Learning, Perception, and Cognition**

S-N only, 2 credit(s), max credits 24, 12 completions allowed;

Instructor: Gershenson, Celia Wolk

**Description:** Course Objectives/Goals: The objectives of the course are to provide exposure to current knowledge in the many-faceted field of cognitive sciences. The weekly presentations are designed to encompass the wide range of research areas that comprise the cognitive sciences. Class Structure: The course is in the form of a colloquium series. Each session consists of a 40-50 minute presentation followed by a question and discussion period. Course Requirements: Enrolled students are required to attend all colloquia, read references provided, (the references of which available online at
COLA 3950 Topics in Collaborative Arts
4 credit(s), max credits 32, 8 completions allowed; prereq instr consent
Instructor: Lindberg,Evonne C
Description: This course will focus on experimental forms of video art, including experimental non-narrative video, video installation, and video combined with live art works. Students will have the opportunity to explore the aesthetic and conceptual intersections between Film and Art while producing original works that explore contemporary digital technologies alongside super 8 filmmaking. Presentations and screenings of experimental film and video art work from 1900 to the present will be included.

COLA 5950 Topics in Collaborative Arts: Narrative Video
4 credit(s), max credits 32, 8 completions allowed; prereq instr consent
Instructor: Lukkas,Lynn Tjernan
Description: This course will focus on experimental forms of video art, including experimental non-narrative video, video installation, and video combined with live art works. Students will have the opportunity to explore the aesthetic and conceptual intersections between Film and Art while producing original works that explore contemporary digital technologies alongside super 8 filmmaking. Presentations and screenings of experimental film and video art work from 1900 to the present will be included.

COLA 5950 Topics in Collaborative Arts: Hand, Mind & Gesture:Creation of Image Driven Perf
3 credit(s), max credits 32, 8 completions allowed; prereq instr consent
Instructor: Sommers,Michael J
Description: This course will trace the history of electronic music, including both experimental and popular styles, the technology itself, and how these have influenced one another. Students will listen to music and discuss how it was created; learn about the ideas and people behind it; and consider how technology has changed the ways we experience music.

CFAN 1201 Discovering Majors and Careers
A-F only, 1 credit(s);
Instructor: Fredrickson,Heather Nagle
Description: Student may contact the instructor or department for information.

CFAN 1501 Biotechnology, People, and the Environment
A-F only, 3 credit(s); Meets CLE req of Environment Theme;
Instructor: Young,Nevin Dale
Description: Biotechnology, People and the Environment (CFAN 1501; Spring Semester. 3 credits) is a non-technical introduction to biotechnology, genetic engineering, and their impact on agriculture, food, medicine and the environment. The class does not have formal lab or recitation sections, but it does include discussions and demonstrations. CFAN 1501 fulfills the Environment theme of the Council on Liberal Education. Along with readings, CFAN 1501 requires: 1) internet-based learning activities, 2) a personal biotechnology journal, and 3) a public perception survey on biotechnology. CFAN is organized into four blocks. The course begins with a brief overview/introduction to genetic engineering technology, followed by the biotechnology of plants (including genetically modified foods and crops), biotechnology of microbes (including bioremediation, biocontrol, and food microbiology), and the biotechnology of animals and medicine (including biopharmaceuticals, genetic screening, genome sequencing, animal cloning, bioterrorism, and genetic therapy).
Style: 65% Lecture, 10% Discussion, 25% Group Activities
Grading: 40% mid exam, 20% final exam, 15% special projects, 5% quizzes, 20% journal. There are generally three exams during the semester and each is worth 20%.
Exam Format: Exams are generally 25% multiple choice; 25% matching; 25% short answer; 25% essay question.

CFAN 1902 Topics: Freshman Seminar: American Indian Ways of Knowing the Environment
3 credit(s); prereq freshman; Meets CLE req of Diversity Theme;
Instructor: Brakke,Mary Patricia
Description: Student may contact the instructor or department for information.

CFAN 3000 Directed Studies in International Agriculture
A-F only, 2-4 credit(s), max credits 8, 3 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CFAN 3000H Honors Topics in CFANS: Food & Agri from Cairo to Cape Town at 10mph
A-F only, 3 credit(s), max credits 8; prereq Honors;
Instructor: Brakke,Mary Patricia
Description: This course provides students with an introduction to food, agriculture and agroecosystems in 10 African countries (Egypt, Sudan, Ethiopia, Kenya, Tanzania, Malawi, Zambia, Botswana, Namibia, and South Africa). From 10 January until 9 May Dr. Porter will travel by bicycle through these countries starting in Cairo and ending in Cape Town. As he travels he will be observing the food, agriculture and agroecosystems and relate these observations back to the class. For more information on the bike tour and route see www.tourdafrique.com. The class will be taught by teaching assistant Margaret Mangan, and
involves a series of faculty guest speakers and videos. To the extent possible, Dr. Porter will provide written and audio-blogs of his experiences, focusing on food, agriculture and agroecosystems (and to a lesser extent the ride itself). He will have limited email access, but hopes to communicate with students that way, as well as with some direct phone conversations to the class. His blogs will include 1) daily beginning and ending locations, 2) weather conditions, 3) food he ate and what the local population eats, 4) a daily assessment of the agroecosystems, 5) an assessment of the water situation and climate, 6) an assessment of the culture, 7) a conversation of the day, 8) a sight of the day, and 9) a thought / reflection of the day. There will be no textbook for the class. Students will be expected to read postings provided on WebVista as well as selected websites (such as http://paulporter.wordpress.com). The target audience includes students at any grade level from any college who have an interest in 'coming along' for the ride and learning more about food, agriculture and agroecosystems in a sliver of Africa from Cairo to Cape Town. Also in this class students will gain firsthand experience eating food from a local restaurant specializing in African cuisine.

Style: 20% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 40% Guest Speakers, 10% Web Based.
Grading: 20% mid exam, 10% quizzes, 10% written homework, 20% additional semester exams, 10% journal, 20% reflection paper, 10% class participation.

Exam Format: Short answer, multiple choice

CFAN 3000H Honors Topics in CFANS: Food & Agri from Cairo to Cape Town at 10mph

A-F only, 3 credit(s), max credits 8; prereq Honors; Instructor: Porter, Paul M
Description: This course provides students with an introduction to food, agriculture and agroecosystems in 10 African countries (Egypt, Sudan, Ethiopia, Kenya, Tanzania, Malawi, Zambia, Botswana, Namibia, and South Africa). From 10 January until 9 May Dr. Porter will travel by bicycle through these countries starting in Cairo and ending in Cape Town. As he travels he will be observing the food, agriculture and agroecosystems and relate these observations back to the class. For more information on the bike tour and route see www.tourdafrique.com. The class will be taught by teaching assistant Margaret Mangan, and involves a series of faculty guest speakers and videos. To the extent possible, Dr. Porter will provide written and audio-blogs of his experiences, focusing on food, agriculture and agroecosystems (and to a lesser extent the ride itself). He will have limited email access, but hopes to communicate with students that way, as well as with some direct phone conversations to the class. His blogs will include 1) daily beginning and ending locations, 2) weather conditions, 3) food he ate and what the local population eats, 4) a daily assessment of the agroecosystems, 5) an assessment of the water situation and climate, 6) an assessment of the culture, 7) a conversation of the day, 8) a sight of the day, and 9) a thought / reflection of the day. There will be no textbook for the class. Students will be expected to read postings provided on WebVista as well as selected websites (such as http://paulporter.wordpress.com). The target audience includes students at any grade level from any college who have an interest in 'coming along' for the ride and learning more about food, agriculture and agroecosystems in a sliver of Africa from Cairo to Cape Town. Also in this class students will gain firsthand experience eating food from a local restaurant specializing in African cuisine.

Style: 20% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 40% Guest Speakers, 10% Web Based.
Grading: 20% mid exam, 10% quizzes, 10% written homework, 20% additional semester exams, 10% journal, 20% reflection paper, 10% class participation.

Exam Format: Short answer, multiple choice

CFAN 3001H Honors Experience

A-F only, 2-3 credit(s), max credits 6; prereq instr consent; Instructor: STAFF
Description: Student may contact the instructor or department for information.

CFAN 3201 Strategic Career Planning

A-F only, 1 credit(s); prereq Soph or jr or sr or grad student credit will not be granted if credit received for: 3201; Instructor: Kubas, Mary Patricia
Description: Want to get ahead of the competition when searching for jobs and internships? This 1 credit course is ideal for undergraduate and graduate students in any major seeking internships and/or full time work. It is recommended that you have 45+ credits before registering for this course. This half-semester course covers topics that will prepare you for your job/internship search including skills assessment, resume writing, interviewing, job searching and salary negotiation.
Style: 65% Lecture, 10% Discussion. Class Activities
Grading: 25% reports/papers, 50% special projects, 10% class participation, 15% other evaluation. inventories & class activities

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
students in the classroom. His daily blogs will include 1) the ending location, distance traveled and elevation, 2) an assessment of the water situation and climate, 3) the food he eats and what the local population eats, 4) an assessment of the agroecosystems, 5) an assessment of the culture and infrastructure, and 6) a conversation, sight, and/or reflection for the day. There will be no textbook for the class. Students will be expected to read postings provided on WebVista as well as selected websites (such as http://paulporter.wordpress.com). The target audience includes students at any grade level from any college who have an interest in ‘coming along’ for the ride and learning more about food, agriculture and agroecosystems in a sliver of Africa from Cairo to Cape Town. Also in this class students will gain firsthand experience eating food from a local restaurant specializing in African cuisine.

Style: 20% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 40% Guest Speakers, 10% Web Based.

Grading: 20% mid exam, 10% quizzes, 10% written homework, 20% additional semester exams, 10% journal, 20% reflection paper, 10% class participation.

Exam Format: Short answer, multiple choice

CFAN 3480 Topics in CFANS: Food & Agri from Cairo to Cape Town at 10mph

3 credit(s), max credits 8; Instructor: Porter, Paul M

Description: This course provides students with an introduction to food, agriculture and agroecosystems in 10 African countries (Egypt, Sudan, Ethiopia, Kenya, Tanzania, Malawi, Zambia, Botswana, Namibia and South Africa). In 2010 bicyclers with Tour d’Afrique (www.tourdafrique.com) will travel through these countries starting 16 January in Cairo and ending 15 May in Cape Town. In 2009 Dr. Paul Porter traveled 3,700 miles with this group until mid-March. In 2010 he intends to resume the ride in mid-March and complete the trek to Cape Town. As he travels he will be observing the food, agriculture and agroecosystems and relate these observations back to the class. Thus Dr. Porter will be in the classroom only for the first half of the semester, and traveling in Africa the second half. The class is co-taught with Dr. Mary Brakke Students will be exposed to Dr. Porter’s 2009 experiences as well as a series of faculty guest speakers with a wide array of professional activities in Africa. Upon his return to the trek in March 2010, Dr. Porter will provide daily written and audio-blogs of his experiences, focusing on food, agriculture and agroecosystems (and to a lesser extent the ride itself).

Periodically he will have direct phone conversations back to the students in the classroom. His daily blogs will include 1) the ending location, distance traveled and elevation, 2) an assessment of the water situation and climate, 3) the food he eats and what the local population eats, 4) an assessment of the agroecosystems, 5) an assessment of the culture and infrastructure, and 6) a conversation, sight, and/or reflection for the day. There will be no textbook for the class. Students will be expected to read postings provided on WebVista as well as selected websites (such as http://paulporter.wordpress.com).

The target audience includes students at any grade level from any college who have an interest in ‘coming along’ for the ride and learning more about food, agriculture and agroecosystems in a sliver of Africa from Cairo to Cape Town. Also in this class students will gain firsthand experience eating food from a local restaurant specializing in African cuisine.

Style: 20% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 40% Guest Speakers, 10% Web Based.

Grading: 20% mid exam, 10% quizzes, 10% written homework, 20% additional semester exams, 10% journal, 20% reflection paper, 10% class participation.

Exam Format: Short answer, multiple choice

CFAN 3500 International Field Studies Seminar: Thailand A-F only, 3 credit(s), max credits 6; prerequisite instruction consent; Instructor: Smith, James L David

Description: Based at the Agricultural College Plantahof in Chur, this course explores several different types of farming operations in Switzerland. The agricultural 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: Switzerland A-F only, 3 credit(s), max credits 6; prerequisite instruction 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 16, 2008.

CFAN 3500 International Field Studies Seminar: Bahamas A-F only, 2 credit(s), max credits 6; prerequisite instruction consent; Instructor: Vreyens, John Robert

Description: Water quality techniques and land use-water quality relationships in tropical marine and freshwater ecosystems. We follow a ridge-to-reef concept, analyzing watershed land use, water quality and the ways the local community influence and value water quality. The class is taught primarily at Greencastle Estate, St. Mary’s Parish on the north coast of Jamaica. Greencastle is a 560 ha organic ranch which produces tropical fruits and vegetables as well as Jamaican beef cattle. Students stay on the Estate; nearly all field work is conducted within 2 miles of the Estate House. The class is offered in collaboration with the University of the West Indies, and cross-cultural exchanges between Minnesota and UWI students are central to the class. The class focuses on discovery and inquiry based learning. The objectives of the course are to help students understand tropical land use-water quality relationships through experiential and active learning activities. Students sample streams, rivers, groundwaters, and coral reef habitats; they also interview community residents. Teams measure transects to understand the quality of, and human impacts to the beach and the coral reef. We analyze fish substrate and aquatic insects in streams and rivers. The class is highly interactive: we talk in depth about what we saw and learned, and connect our learning to environmental management. A highly structured Excel spread sheet model is used to store and guide analysis of current and historical data. The final days include snorkeling at the Discovery Bay marine lab on the north coast and at Lime Cay on the south coast, as well as two nights in the field. Students must be able to swim, to walk and work in rigorous outdoor settings, and to work in groups. Estimated cost $2,950. Dates of travel: January 2 to 16, 2010.

Style: 10% Lecture, 30% Discussion, 60% Field Trips.

Grading: 10% reports/papers, 30% class participation, 40% problem solving, 20% other evaluation.

CFAN 3500 International Field Studies Seminar: Costa Rica A-F only, 3 credit(s), max credits 6; prerequisite instruction consent; Instructor: Vreyens, John Robert

Description: This agro-forestry course offers a balance between scientific background information and hands-on experience. The environments explored range from high- to low-elevation forests and from conventional high-input farms to sustainable...
organic and bird-friendly coffee, cocoa and banana plantations. Students learn about payment for environmental services, certification of forest products, ecotourism, and other environmental programs using coffee systems and natural and managed forests as examples. Estimated costs $2,800. Dr. Dean Current leads this group to Costa Rica. Dates of travel are: January 6 to January 20, 2008.

CFAN 3500 International Field Studies Seminar: Thailand
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
A-F only, 2 credit(s), max credits 6; prereq instr consent
Instructor: Sorensen, Peter William
Description: Water quality techniques and land use-water quality relationships in tropical marine and freshwater ecosystems. We follow a ridge-to-reef concept, analyzing watershed land use, water quality and the ways the local community influence and value water quality. The class is taught primarily at Greencastle Estate, St. Mary's Parish on the north coast of Jamaica. Greencastle is a 560 ha organic ranch which produces tropical fruits and vegetables as well as Jamaican beef cattle. Students stay on the Estate; nearly all field work is conducted within 2 miles of the Estate House. The class is offered in collaboration with the University of the West Indies, and cross-cultural exchanges between Minnesota and UWI students are central to the class. The class focuses on discovery and inquiry based learning. The objectives of the course are to help students understand tropical land use/water quality relationships through experiential and active learning activities. Students sample streams, rivers, groundwaters, and coral reef habitats; they also interview community residents. Teams measure transects to understand the quality of, and human impacts to the beach and the coral reef. We analyze fish, substrate and aquatic insects in streams and rivers. The class is highly interactive; we talk in depth about what we saw and learned, and connect our learning to environmental management. A highly structured Excel spread sheet model is used to store and guide analysis of current and historical data. The final days include snorkeling at the Discovery Bay marine lab on the north coast and at Lime Cay on the south coast, as well as two nights in Kingston. Students must be able to swim, to walk and work in rigorous outdoor settings, and to work in groups. Estimated cost $2,950. Dates of travel: January 2 to 16, 2010.
Style: 10% Lecture, 30% Discussion, 60% Field Trips.
Grading: 10% reports/papers, 30% class participation, 40% problem solving, 20% other evaluation.

CFAN 3900 Topics in International Agriculture
A-F only, 2-4 credit(s), max credits 25, 10 completions allowed; prereq instr consent
Instructor: Vreyens, John Robert
Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture
A-F only, 2-4 credit(s), max credits 25, 10 completions allowed; prereq instr consent
Instructor: Vreyens, John Robert
Description: Student may contact the instructor or department for information.

CFAN 3900 Topics in International Agriculture
A-F only, 2-4 credit(s), max credits 25, 10 completions allowed; prereq instr consent
Instructor: Vreyens, John Robert
Description: Student may contact the instructor or department for information.
abouts in the region alongside agriculture. Students will be able to experience a mountain hike, climb a glacier and even take the longest toboggan ride in the world--nearly 3 km long! All students will have a home stay with farmers in locations in the Alps near the summer pastures for cattle. This course includes visits to the historic cities of Chur, Zurich and Bern. Estimated cost is $3,400. Ms. Julie Tesch leads the group. Dates of travel are: May 17 to 25, 2008 tentative.

**CFAN 5500 International Field Studies Seminar: Costa Rica**

**A-F only, 3 credit(s), max credits 6; prereq instr consent**

**Instructor:** Vreyens, John Robert

**Description:** This agro-forestry course offers a balance between scientific background information and hands-on experiences. The environments explored range from high- to low-elevation forests and from conventional high-input farms to sustainable organic and bird-friendly coffee, cocoa and banana plantations. Students learn about payment for environmental services, certification of forest products, ecotourism, and other environmental programs using coffee systems and natural and managed forests as examples. Estimated costs $2,800. Dr. Dean Current leads this group to Costa Rica. Dates of travel are: January 6 to January 20, 2008.

**CFAN 5500 International Field Studies Seminar: Bahamas**

**A-F only, 2 credit(s), max credits 6; prereq instr consent**

**Instructor:** Sorensen, Peter William

**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.

**Communication Studies**

**225 Ford Hall**

**COMM 1101 Introduction to Public Speaking**

3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223;

**Instructor:** STAFF

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

**COMM 1101H Honors: Introduction to Public Speaking**

3 credit(s); prereq honors; Credit will not be granted if credit has been received for: WRIT 1223;

**Instructor:** Schiappa, Edward

**Description:** The goals of course are: 1) To increase each student's confidence and comfort with public speaking; 2) To provide students with a historical understanding of the role of public speaking and oratory in the United States; 3) To provide students with historical context to understand the role of public advocacy in higher education dating back to the time of the ancient Greeks. The class will require students to A) provide some written outlines, analysis, and short speech manuscripts, and B) do research in the process of creating speeches. The course will have students up on their feet speaking as often as possible, giving a variety of speeches.

**COMM 1313W Analysis of Argument**

3 credit(s); Meets CLE req of Writing Intensive;

**Instructor:** STAFF

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

**COMM 3110 Topics in Speech-Communication**

3 credit(s), max credits 15, 5 completions allowed;

**Instructor:** Lepperl, Alice J

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

**COMM 3110 Topics in Speech-Communication**

3 credit(s), max credits 15, 5 completions allowed;

**Instructor:** Gregg, Peter Benjamin

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

**COMM 3110 Topics in Speech-Communication**

3 credit(s), max credits 15, 5 completions allowed;

**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 three 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. Comm 3201 is a required prerequisite.  
Style: 33% Lecture, 33% Discussion, 34% Laboratory.  
Grading: 10% reports/papers, 60% special projects, 5% class participation, 25% laboratory evaluation.

COMM 3204 Advanced Electronic Media Production  
A-F only, 4 credit(s); prerequisite 3201 or instructor consent;  
Instructor: Neuman-Scott, Mark A  
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 three 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. Comm 3201 is a required prerequisite.  
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: Ouellette, Laurie Jean  
Description: Student may contact the instructor or department for information.

COMM 3401 Introduction to Communication Theory  
3 credit(s);  
Instructor: Hewes, Dean E  
Description: COMM 3401 is an introduction to the scientific study of communication. Topics covered include the goals and structure of social scientific theory and various approaches to communication theory including the behavioral, cognitive, evolutionary, cybernetic and socio-cultural. Examples of each approach are discussed drawn from interpersonal, mass, and intercultural communication. This is usually a large class necessitating lectures and discussion. Group projects, midterm and final exams form the basis of the final grades.  
Style: 80% Lecture, 20% Discussion.

COMM 3401 Introduction to Communication Theory  
3 credit(s);  
Instructor: Fitzpatrick, Stacy L  
Description: This fully online section is offered through Online and Distance learning, College of the Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course is designed to give you a foundation for understanding why theories are important in understanding communication, how those theories work, how they are structured, and why certain theories work better than others in specific contexts. The course starts with an in-depth look at the nature of social science theory and builds on this foundation over the semester, addressing specific theories of communication. This course will go beyond just helping you memorize various theories of communication; it will help you understand how communication theory relates to everyday life and helps people make sense of the events they encounter. When presented with a new theory, it’s understandable to respond, “That’s great in theory, but I don’t see how it applies to me.” This course will aim to show you the usefulness of communication theory in real life.  
Style: 100% Web Based. Course Requirements:  
--self-introduction: 2%  
--discussions (4): 16%  
--application exercises (2): 8%  
--quizzes (4): 48%  
--final project (with both group and individual portions): 26%  
Grading: Course Requirements: --self-introduction: 2%  
--discussions (4): 16%  
--application exercises (2): 8%  
--quizzes (4): 48%  
--final project (with both group and individual portions): 26%.

COMM 3402 Introduction to Interpersonal Communication  
3 credit(s); Meets CLE req of Social Science Core;  
Instructor: STAFF  
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 (kinesics). In the second half of the course we will explore how these nonverbal codes work together to fulfill important communicative functions (e.g., deception, courtship, influencing) in various relational contexts (e.g., friendships, close relationships). In order to achieve these objectives I use various teaching tools, such as lectures, movies, in-class discussions, in-class exercises, assignments, research papers, and exams.  
Style: 75% Lecture, 25% Discussion.  
Grading: 16% mid exam, 12% final exam, 50% reports/papers, 10% quizzes. 12% for second exam  
Exam Format: multiple choice

COMM 3411 Introduction to Small Group Communication  
3 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

COMM 3422 Interviewing and Communication  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

COMM 3431 Persuasion Theories  
3 credit(s); prereq Soph recommended; Meets CLE req of Social Science Core;  
Instructor: STAFF  
Description: This course is designed to familiarize you with the complex and dynamic phenomenon of persuasion as a form of human communication. There are three basic objectives for the course: 1) To be able to understand the concept of persuasion from a theoretical perspective, and be familiar with the research findings on the persuasion process. 2) To demonstrate understanding of the process of persuasion in a variety of communication contexts, through oral and written exercises. 3) To be a critical consumer of persuasive messages.  
Style: 80% Lecture, 20% Discussion.  
Grading: 12% mid exam, 12% final exam, 25% reports/papers, 12% special projects, 25% quizzes, 12% class participation  
Exam Format: Mixture of multiple choice and short answer/definition questions

COMM 3451W Intercultural Communication: Theory and Practice  
3 credit(s); prereq Planning an intercultural experience; Meets CLE req of International Perspectives Theme; meets CLE
COMM 3601 Introduction to Rhetorical Theory
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Greene, Ronald Walter
Description: This course introduces students to rhetorical theory by accounting for the different forms of political, cultural, and economic persuasion that permeate everyday life. To orient ourselves to these forms of persuasion, the class highlights the philosophical disagreements about the value of rhetoric to education, democracy, and morality. To explore the contemporary relevance of these philosophical disagreements to our experience of persuasion, the class will investigate Presidential speechmaking, advertising, movies, and video games.
Style: 70% Lecture, 10% Film/Video, 10% Discussion.
Grading: 4 tests each one builds on the other. Roughly 70%. Participation assignments (quizzes, homework, in class participation) 30%.
Exam Format: Multiple choice; True-False

COMM 3625W Famous Speeches
A-F only, 3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Wilson, Kirt H
Description: This course examines a series of particularly conflicted or difficult texts such as those that seem impossible to clarify, texts that seem unable to support any stable coherent meaning. Context for these debates will be provided by a discussion of historical context and by introducing various hermeneutical methods such as textual criticism, rhetorical criticism and literary criticism, among others. Argumentation in the Qur'an will also be briefly considered. This class is intended for undergraduates only. A class in argumentation or Biblical studies is strongly recommended as a prerequisite.

COMM 3626 Communication Ethics
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: STAFF
Description: This course introduces students to ethical issues related to communication in a variety of contexts, including advertising, social media, and public relations. Students will learn about ethical theories and apply them to real-world cases.

COMM 3628 Persuasive Speaking and Speech Writing
3 credit(s); prereq Soph; Meets CLE req of Writing Intensive;
Instructor: Kuehl, Becky
Description: This course focuses on the principles of persuasive speaking and writing. Students will learn how to analyze and evaluate arguments, construct effective arguments, and deliver persuasive speeches.

COMM 3637 Law and Language
3 credit(s); prereq 3401 or instr consent;
Instructor: Vavrus, Mary D
Description: This course explores the role of language in the legal system, including the use of language in legal education, legal practice, and legal communication. Students will be introduced to legal terminology and will learn how to write and speak effectively in a legal context.

COMM 4404 Language Borderlands
3 credit(s); Meets CLE req of Cultural Diversity Theme;
Instructor: Sheldon PhD, 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.

COMM 4471 Communication in Marriage and Family
3 credit(s); prereq 3401 or 3402 or instr consent;
Instructor: Rose, Jeremy H
Description: This course explores communication in intimate relationships, focusing on theories and research related to communication in marriage and family. Students will learn about the role of communication in human relationships and will apply communication theories to their own lives.

COMM 5110 Special Topics in Communication Theory
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Nordin, John P
Description: This course examines special topics in communication theory, including theories of communication, speech acts, and discourse analysis. Students will engage in critical thinking and analysis of communication phenomena.

COMM 5402 Advanced Interpersonal Communication
3 credit(s); prereq 3401 or 3402;
Instructor: STAFF
Description: This course examines advanced topics in interpersonal communication, including communication in conflict situations, nonverbal communication, and communication in special contexts such as business or healthcare.

COMM 5404 Language and Culture
3 credit(s); prereq 3401 or instr consent;
Instructor: Sheldon PhD, Amy
Description: This course considers the role of language in shaping cultural identity and social life. Students will explore the ways in which language and culture intersect, and will analyze how language is used to construct and negotiate cultural meaning.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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 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 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: Koerner, Ascan Felix
Description: This course covers theory and practice of public persuasion campaigns. The theoretical part includes a review of relevant literature in audience analysis, persuasion theories, and message design. The practical part involves the design and implementation of a public persuasion campaign. For the Spring 06 semester, this campaign will be the Bihar project, which entails two campaigns. One is a public health campaign advocating behaviors to avoid black fever in Bihar, India, the other is a local fund raising campaign to finance the Bihar project. The emphasis in this course is on translating sound theoretical knowledge into an effective campaign and on combining learning with effecting positive change in the world.
Style: 30% Lecture, 20% Discussion. Filed work
Grading: 20% mid exam, 20% final exam, 60% other evaluation.
project work

COMM 5441 Communication in Human Organizations
3 credit(s); prereq 9 cr social science, 3441 or instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

COMM 5441 Communication in Human Organizations
3 credit(s); prereq 9 cr social science, 3441 or instr consent;
Instructor: Jacobs, Laura Jean
Description: This fully online section is offered though Online and Distance learning, College of the Continuing Education. It may be taken for either undergraduate or graduate credit. (Graduate students are advised to register for A-F grading.) Visit “Class URL” for ODL policies, including fee and financial aid restrictions. This course helps students understand the distinct nature of human communication in organizations. Students will learn to recognize the key factors that influence individuals and apply theories of organizational communication. After identifying and using established methods to diagnose issues and problems related to communication, students will develop their own strategies for discovering and explaining organizational and individual interactions. Each week students will post answers to two discussion questions, and respond to another student's posting. At several points during the course students will be asked to pick a reference organization to use as a source of examples. This reference organization should be one of which they are (or have been) a member. It could be a work organization, community or voluntary association, or some other type of organization. In order to ensure that students are keeping up with the readings and understand them, they will need to participate in a brief multiple-choice exercise each week before submitting any other assignment. Instructor e-mail: jaco0466@umn.edu
Style: 100% Web Based.
Grading: --12 weekly online discussion submissions and responses (40% undergrad, 20% grad) --2 brief reviews (20% undergrad, 20% grad) --1 research project (40% undergrad, 40% grad) --1 profile of an organizational communications scholar (20% grad only)

COMM 5451W Intercultural Communication Processes
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Ouellette, Laurie Jean
Description: Student may contact the instructor or department for information.

COMM 5615W Introduction to Rhetorical Criticism
3 credit(s); prereq 1101; 3601 recommended; Meets CLE req of Writing Intensive;
Instructor: Campbell, Karlyn Kohrs
Description: Student may contact the instructor or department for information.

COMM 8110 Seminar: Advanced Speech Problems
3 credit(s), max credits 15, 5 completions allowed; prereq undergrad degree in spch-comm or equiv;
Instructor: Albert, Rosita D
Description: Student may contact the instructor or department for information.

COMM 8210 Seminar: Selected Topics in U.S. Electronic Media
3 credit(s), max credits 6; prereq 5210 or instr consent;
Instructor: Rodman, Gilbert B.
Description: Student may contact the instructor or department for information.

COMM 8210 Seminar: Selected Topics in U.S. Electronic Media
3 credit(s), max credits 6; prereq 5210 or instr consent;
Instructor: Ouellette, Laurie Jean
Description: Student may contact the instructor or department for information.

COMM 8504 Seminar: Rhetorical Criticism
3 credit(s); prereq 5615 or instr consent;
Instructor: Campbell, Karlyn Kohrs
Description: Student may contact the instructor or department for information.

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

Comparative Literature
235 Nicholson Hall

CL 5910 Topics in Comparative Literature: Neorealism and the Cinema
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Casarino, Cesare
Description: Student may contact the instructor or department for information.

CL 5910 Topics in Comparative Literature: Sanskrit Drama
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Swaney, Simona
Description: Student may contact the instructor or department for information.

CL 5992 Directed Reading in Comparative Literature
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CL 8002 Basic Seminar in Comparative Literature II
3 credit(s);
Instructor: Casarino, Cesare  
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: Hispanic  
Baroques: Containment, Freedom  
3 credit(s), max credits 24, 8 completions allowed;  
Instructor: Spadaccini, Nicholas  
Description: Student may contact the instructor or department for information.

CL 8910 Advanced Topics in Comparative Literature: Problems in the Sociology of Culture: Williams  
3 credit(s), max credits 24, 8 completions allowed;  
Instructor: Ganguly, Keya  
Description: From Aristotle's classical use of "dialectic" to refer to the art of argument, particularly refutation, and Hegel's nineteenth-century elaboration of it as the philosophical method by which to understand the unfolding of human history, to Marx's stipulation of dialectics as the basis of historical materialism, the concept and tradition of thinking associated with this term has been of profound importance in philosophy, history, and politics -- in short, in all of the fields of thought that have gone into the constitution of contemporary "theory" (even if many strands of it today abjure both the centrality and necessity of dialectical thinking within their own protocols of analysis). In this seminar, we will examine the central tenets and principles of the dialectical tradition, paying particular attention to its Left Hegelian lineage -- dating back of course to Marx and Engels as well as Feuerbach but in its movement forward as well, in the writings of Situationists such as Debord, existentialists such as Sartre, revolutionary socialists such as Mao and Ho Chi Minh and in the unsurpassed dialectics of the Frankfurt School thinkers (Adorno, Bloch, Benjamin, Horkheimer, and Marcuse, especially). Although the limitation of a semester will constrain what we can read, the objective of the seminar is to read in the tradition -- closely and to develop an understanding of its key aspects. Primary arguments as well as secondary readings will provide the basis of our engagement, which should be conceived as theoretical as well as methodological. [Figures and texts: Aristotle, Hegel, Marx, Feuerbach, Mao, Ho, Lukacs, Sartre, Adorno, Benjamin, Bloch, Debor, Marcuse, Horkheimer, Buck-Mors, Jameson, Kosik, Benhabib; Assignments: class presentations and a seminar paper.]

CL 8910 Advanced Topics in Comparative Literature: Sound/Radio/Listening  
3 credit(s), max credits 24, 8 completions allowed;  
Instructor: Mowitt, John W  
Description: Student may contact the instructor or department for information.

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

CL 8910 Advanced Topics in Comparative Literature: Critical Debates in Comp. Lit  
3 credit(s), max credits 24, 8 completions allowed;  
Instructor: Tageldin, Shaden M  
Description: "Translation," writes Gayatri Chakravorty Spivak, "is the most intimate act of reading. I surrender to the text when I translate." Here Spivak speaks of translating a Bengali tongue whose intimacy has been lost to her as an Indian-born academic living in (post)colonial diaspora, not of the transfers of power at stake when a (post)colonial writer translates a colonizer's language--or vice versa. Yet translation, literary and otherwise, figures prominently in the cultural history of imperialism and begs a closer critical look. This seminar will interrogate the role of translation in both imperialisms and reactions to imperialism--past and present--across the (post)colonial power divides of Africa, Asia, the Arab world, the Americas, Europe, and their diasporas. On each side of the power differential it enforces, empire deforms and reshapes both the theory and the praxis of translation. We will consider these effects, as well as the impact of the translation-empire nexus on world literary and historical formations and transformations. By necessity, then, _translation_ in this seminar will denote as much ontological, epistemological, and cultural translation as it will inter- and intra-lingual translation. Shuttling between critical translation theory, literary history, and close readings of "translational literature," we will engage a set of interrelated questions. How have representatives of modern Western empire (invaders and traders, preachers and teachers, scholars and bureaucrats) used translation to elicit the surrender of their would-be subjects? How have writers and intellectuals in colonized or semi-colonial domains, in turn, pursed translation to resist or embrace their dominators' assumed "superiority" and--most often--to propel their cultures toward the West's presumed "modernity"? Why have literary-cultural "awakenings" in much of the world beyond Europe--from the Indian "renaissance" to the Arab _nahda_ to the Chinese May Fourth movement to pan-African _negritude_--taken such charged translational forms, at once remolding literary cultures in the cast of the European dominant and refashioning those cultures against the dominant grain? How might we theorize (post)colonial translation in terms linguistic, material, religious, affective, sexual, psychological? Which face of translation--equivalence or incommensurability--might forge cultural and political equilibrium between the dominator and the dominated? Which reinforces subjection? Finally, what are the implications of the translation-empire nexus for comparative literature and postcolonial studies today? Readings will include works by Agha Shahid Ali, Emily Apter, Paul Bandia, Walter Benjamin, Aime Cesaire, Jacques Derrida, Assia Djebar, Brent Hayes Edwards, Abdellah Kilito, Lydia Liu, Naguib Mahfouz, Natalie Melas, Tejaswini Niranjana, Vicente Rafael, Naoki Sakai, Gayatri Chakravorty Spivak, Rifa'a al-Tahtawi, Ngugi wa Thiong'o, Lawrence Venuti, Lu Xun, and others.  
Style: 25% Lecture, 50% Discussion, 25% Student Presentation.  
Grading: 60% reports/papers, 20% in-class presentation, 20% class participation.

Comparative Studies in Discourse and Society  
235 Nicholson Hall

CSDS 5302 Aesthetics and the Valuation of Art  
3 credit(s); Credit will not be granted if credit has been received for: CSCL 5302;  
Instructor: Schulte-Sasse, Jochen  
Description: Student may contact the instructor or department for information.

CSDS 5993 Directed Study  
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;  
Instructor: STAFF  
Description: Directed study - arranged

CSDS 8002 Basic Seminar in Comparative Studies in Discourse and Society II  
3 credit(s);  
Instructor: Casarino, Cesare  
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: Problems in the Sociology of Culture: Williams
3 credit(s), max credits 24, 8 completions allowed; Instructor: Ganguly,Keya
Description: From Aristotle's classical use of "dialectic" to refer to the art of argument, particularly refutation, and Hegel's nineteenth-century elaboration of it as the philosophical method by which to understand the unfolding of human history, to Marx's stipulation of dialectics as the basis of historical materialism, the concept and tradition of thinking associated with this term has been of profound importance in philosophy, history, and politics -- in short, in all of the fields of thought that have gone into the constitution of contemporary "theory" (even if many strands of it today abjure both the centrality and necessity of dialectical thinking within their own protocols of analysis). In this seminar, we will examine the central tenets and principles of the dialectical tradition, paying particular attention to its Left Hegelian lineage -- dating back of course to Marx and Engels as well as Feuerbach but in its movement forward as well, in the writings of Situationists such as Debord, existentialists such as Sartre, revolutionary socialists such as Mao and Ho Chi Minh and in the unsurpassed dialectics of the Frankfurt School thinkers (Adorno, Bloch, Benjamin, Horkheimer, and Marcuse, especially). Although the limitation of a semester will constrain what we can read, the objective of the seminar is to read in the tradition -- closely -- and to develop an understanding of its key aspects. Primary arguments as well as secondary readings will provide the basis of our engagement, which should be conceived as theoretical as well as methodological. [Figures and texts: Aristotle, Hegel, Marx, Feuerbach, Mao, Ho, Lukacs, Sartre, Adorno, Benjamin, Bloch, Debord, Marcuse, Horkheimer, Buck-Morss, Jameson, Kosik, Benhabib; Assignments: class presentations and a seminar paper.]

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Sound/Radio/Listening
3 credit(s), max credits 24, 8 completions allowed; Instructor: Mowitt,John W
Description: Student may contact the instructor or department for information.

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Globalization: Capital and Culture
3 credit(s), max credits 24, 8 completions allowed; Instructor: Messer-Davidow,Elfen
Description: Student may contact the instructor or department for information.

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Critical Debates in Comp. Lit
3 credit(s), max credits 24, 8 completions allowed; Instructor: Tageldin,Shaden M
Description: "Translation," writes Gayatri Chakravorty Spivak, "is the most intimate act of reading. I surrender to the text when I translate." Here, we will explore the various ways in which whose intimacy has been lost to her as an Indian-born academic living in (post)colonial diaspora, not of the transfers of power at stake when a (post)colonial writer translates a colonizer's language--or vice versa. Yet translation, literal and otherwise, figures prominently in the cultural history of imperialism and begs a closer critical look. This seminar will interrogate the role of translation in both imperialisms and reactions to imperialism--past and present--across the (post)colonial power divides of Africa, Asia, the Arab world, the Americas, Europe, and their diasporas. On each side of the power differential it enforces, empire deforms and reshapes both the theory and the praxis of translation. We will consider these effects, as well as the impact of the translation-experience nexus on world literary and historical formations and transformations. By necessity, then, _translation_ in this seminar will denote as much ontological, epistemological, and cultural translation as it will inter- and intra-lingual translation. Shutting between critical translation theory, literary history, and close readings of "translational literature," we will engage a set of interrelated questions. How have representatives of modern Western empire (invaders and traders, preachers and teachers, scholars and bureaucrats) used translation to elicit the surrender of their would-be subjects? How have writers and intellectuals in colonized or semi-colonial domains, in turn, pursued translation to resist or embrace their dominators' assumed "superiority" and--most often--to propel their cultures toward the West's presumed "modernity"? Why have literary-cultural "awakenings" in much of the world beyond Europe—from the Indian "renaissance" to the Arab _nahda_ to the Chinese May Fourth movement to pan-African _negritude_—taken such charged translational forms, at once remolding literary cultures in the cast of the European dominant and refashioning those cultures against the dominant grain? How might we theorize (post)colonial translation in terms linguistic, material, religious, affective, sexual, psychological? Which face of translation—equivalence or incommensurability—might forge cultural and political equity between the dominator and the dominated? Which reinforces subjection? Finally, what are the implications of the translation-empire nexus for comparative literature and postcolonial studies today? Readings will include works by Agha Shahid Ali, Emily Apter, Paul Bandia, Walter Benjamin, Aime Cesaire, Jacques Derrida, Assia Djebar, Brett Hayes Edwards, Abdelfattah Kilti, Lydia Liu, Naguib Mahfouz, Natalie Melas, Tejaswini Niranjana, Vicente Rafael, Naoki Sakai, Gayatri Chakravorty Spivak, Rifa'a al-Tahtawi, Ngugi wa Thiong'o, Lawrence Venuti, Lu Xun, and others.

Style: 25% Lecture, 50% Discussion, 25% Student Presentation. Grading: 60% reports/papers, 20% in-class presentation, 20% class participation.

Comparative and Molecular Biosciences

CMB 5594 Directed Research in Comparative and Molecular Biosciences
1-4 credit(s), max credits 8, 8 completions allowed; prereq Jr; Instructor: STAFF
Description: Student may contact the instructor or department for information.

CMB 5910 Grantwriting: What Makes a Winning Proposal?
S-N only, 1 credit(s); Credit will not be granted if credit has been received for: VMED 5910; Instructor: Matchett,Karin Elizabeth
Description: Student may contact the instructor or department for information.

CMB 8100 Research Rotation in Comparative and Molecular Biosciences
A-F only, 4 credit(s), max credits 8; prereq 1st yr CMB grad student; Instructor: Walcheck,Bruce Kenneth
Description: Student may contact the instructor or department for information.

CMB 8303 Comparative Models of Disease
A-F only, 2 credit(s); prereq Enrollment in a biological sciences grad program or instr consent ; Instructor: Collister,John Peter
Description: Student may contact the instructor or department for information.

CMB 8335 Molecular Biology Techniques
3 credit(s); prereq Biol 5001, Biol 5003 or equiv or instr consent ; Credit will not be granted if credit has been received for: ANSC 8131;
CSCI 1001 Overview of Computer Science
4 credit(s); prereq None; Meets CLE req of Citizenship/Publ
Ethics Theme; meets CLE req of Mathematical Thinking Core;
Instructor: Barry, Phillip
Description: CSCI 1001 is a broad introduction to the key ideas of
computer science. This course is designed to help you understand
the foundations and limits of computing and
information technology, to help you reason about possible future
applications and technological advances, and to help you be
informed contributors to the public dialog about technology. This is
not a beginning computer skills or programming course,
although we will do some computing projects. Instead, it is an
overview of many of the areas of computer science including
how to automate problem solutions, how to generalize or
abstract design and problem solutions, how to organize and use
data collections, networks, and 'intelligent' computer systems.
The course also covers core ideas behind the Internet, web,
desktop software, and personal computers. The course is
structured around six major activities: (i) class lectures; (ii) class
discussions; (iii) lab sections that provide a chance for hands-in
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 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 intelligence data.
The Scheme programming language is used to implement
programs using these concepts. The text for the course is
Abelson 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: Riedl, John T
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 counted as a course in the major

Student may contact the instructor or department
for information.
be granted if credit has been received for: CSCI 5301;
   Instructor: Meyer,Gary W
   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
   equiv or instr consent ;
   Instructor: Myers,Chad Leighton
   Description: Introduction to computing for biology. New
genomic and proteomic technologies are generating enormous
amounts of data, giving us an unprecedented view of cellular
function. To make sense of these data, biology researchers are
becoming increasingly dependent on using computation in their
work. This course will provide a practical introduction to several
programming concepts including variables, flow control,
input/output, strings, pattern matching, arrays, hash tables,
functions, and subroutines. Students will complete lab
assignments in the Perl and Matlab programming languages,
which will focus on answering biological questions through
analysis of real genomic and proteomic data.

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

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

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

CSCI 4061 Introduction to Operating Systems
4 credit(s); prereq 2021 or EE 2361; no cr for grads in CSci;
   Instructor: STAFF
   Description:

CSCI 4107 Introduction to Computer Graphics Programming
3 credit(s); prereq 4041 or instr consent ; cannot be taken
for grad CSci cr; Credit will not be granted if credit has been
received for: CSCI 5107;
   Instructor: Interrante,Victoria
   Description: This course provides a basic introduction to the
theory and practice of computer graphics programming, using
C/C++ and OpenGL. The focus is on fundamental topics in
computer graphics modeling, rendering and animation, with an
emphasis on practical concepts and the effective use of graphics
toolkits. This course does not fulfill the prerequisite for csci5108,
and students who receive credit in csci4107 cannot take
csci5107 for credit.
   Style: 90% Lecture, 10% Discussion.
   Grading: 15% mid exam, 25% final exam, 60% special projects.
   Exam Format: Computation and short answer

CSCI 4131 Internet Programming
3 credit(s); prereq 4061, 4211 recommended, cannot be
taken for grad CSci cr; Credit will not be granted if credit
has been received for: CSCI 5131;
   Instructor: Sturtivant,Carl
   Description: JavaScript enhancement of HTML documents; CGI
programming in Perl using CGI.pm; Java servlet programming as
an alternative to CGI programming in Perl; CGI programming in
Perl with database servers via DBI.pm; Socket programming in both
Perl and Java: clients, servers and protocols; Perl
programming with ftp, telnet, ssh, mail protocols, etcetera.
   Style: 100% Lecture.
   Grading: 10% mid exam, 35% final exam, 55% other evaluation.
   Programming assignments
   Exam Format: Essay

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: Raabe,John J
   Description: Concepts, principles, protocols, and applications of
computer networks. Layered network architectures, data link
protocols, local area networks, routing, transport, network
programming interfaces, networked applications. Examples from
Ethernet, Token Ring, TCP/IP, HTTP, WWW.

CSCI 4511W Introduction to Artificial Intelligence
4 credit(s); prereq 2011 or instr consent ; cannot be taken for
grad CSci cr; Credit will not be granted if credit has been
received for: CSCI 5511; Meets CLE req of Writing Intensive;
   Instructor: Gini,Maria L
   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 completions 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 completions 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 completions allowed; prereq
Upper div CSci, 4061, instr consent ; cannot be taken for
grad cr; Meets CLE req of Writing Intensive;
   Instructor: Dovolis,Chris John
   Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; prereq
Upper div CSci, 4061, instr consent ; cannot be taken for
grad cr; Meets CLE req of Writing Intensive;
   Instructor: Collins,John
   Description: Student may contact the instructor or department for information.
CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions 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 completions 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 completions 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 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Barry, Phillip
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Papanikolopoulos, Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions 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 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Janardan, Ravi
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions 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 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Sturtivant, Carl
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Kumar, Vipin
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Shragowitz, Eugene
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Du, David Hung-Chang
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Heimdahl, Mats
Description: Student may contact the instructor or department for information.

CSCI 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions 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 completions allowed; prereq Upper div CSci, 4061, instr consent ; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Mokbel, Mohamed F</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Zhai, Antonia Bingheng</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Schuler, William Edward</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Chandra, Abhishek</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Van Wyk, Eric</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Terveen, Loren Gilbert</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Roumeliotis, Stergios</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Interrante, Victoria</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Kuang, Rui</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Weissman, Jon B</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Srivastava, Jaideep</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Schuler, William</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Chandra, Abhishek</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Van Wyk, Eric</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Terveen, Loren Gilbert</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Roumeliotis, Stergios</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Interrante, Victoria</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Kuang, Rui</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Weissman, Jon B</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Srivastava, Jaideep</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Schuler, William</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Chandra, Abhishek</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Van Wyk, Eric</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Terveen, Loren Gilbert</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSCI 4970W Advanced Project Laboratory</td>
<td>3</td>
<td>grad cr; Meets CLE req of Writing Intensive; Upper div CSci, 4061, instr consent</td>
<td>Roumeliotis, Stergios</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>
CSCI 4970W Advanced Project Laboratory
3 credit(s); max credits 3, 3 completions allowed; prereq Upper div CSci, 4061, instr consent; cannot be taken for grad cr; Meets CLE req of Writing Intensive;
Instructor: Keefe,Dan J
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 5108 Fundamentals of Computer Graphics II
3 credit(s); prereq 5107 or instr consent;
Instructor: Meyer,Gary W
Description: This course presents advanced topics in computer graphics. Its coverage includes hidden surface algorithms, sampling theory, local illumination models, volumetric rendering, advanced ray tracing, and radiosity. It also incorporates material that is not likely to be found in existing computer graphics textbooks and has only recently appeared in journals and conference proceedings. It is a "hands on" course in which students implement several of the algorithms discussed in class. The course is intended for individuals who have already had at least one semester or two quarter courses in computer graphics. It is assumed that students are familiar with basic rasterization algorithms, two and three dimensional geometric transformations, perspective projection, and simple illumination models. Individuals who have implemented a basic ray tracer are ideally prepared to take this course. Others who have programmed at least one hidden surface algorithm should also be able to handle the material.
Style: 100% Lecture.
Grading: 20% mid exam, 80% other evaluation. Programming assignments and final project
Exam Format: problem solving and essay

CSCI 5161 Introduction to Compilers
3 credit(s); prereq [2011, 5106] or instr consent;
Instructor: Nadathur,Gopalan
Description: Student may contact the instructor or department for information.

CSCI 5204 Advanced Computer Architecture
3 credit(s); prereq 4203 or EE 4363 credit will not be granted if credit received for: 8203, EE 8365;
Instructor: Zhai,Antonio Bingheng
Description: Student may contact the instructor or department for information.

CSCI 5302 Analysis of Numerical Algorithms
3 credit(s); prereq 2031 or instr consent;
Instructor: Boley,Daniel L
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: Saad,Yousef
Description: Student may contact the instructor or department for information.

CSCI 5461 Functional Genomics, Systems Biology, and Bioinformatics
3 credit(s); prereq 3003 or 4041 or instr consent;
Instructor: Kuang,Rui

CSCI 5471 Modern Cryptography
3 credit(s); prereq [2011, 4041, [familiarity with theory or limited fields]] or instr consent;
Instructor: Kim,Yongdae
Description: Overview (3.0 cr; prereq [2011, 4041, [familiarity with theory or limited fields]] or permission from Instructor) Introduction to cryptography. Theoretical foundations, practical applications. Threats, attacks, and countermeasures, including cryptosystems and cryptographic protocols. Secure systems/networks. History of cryptography, encryption (conventional, public key), digital signatures, hash functions, message authentication codes, identification, authentication, applications. Goal The goal is to make students familiar with the foundations of computer and network security. More precisely, To learn mathematical background for cryptographic techniques To learn basic cryptographic techniques used in computer and network security To learn how secure these techniques are To learn how to use these techniques securely To learn how to apply these techniques to computer systems and Internet. Among these goals, the last two are the primary goal.
Style: 90% Lecture, 10% Discussion.
Grading: 20% mid exam, 30% final exam, 30% special projects, 4% class participation, 16% problem solving.
Exam Format: Problem solving and brief essay (5 lines maximum)

CSCI 5512 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 5512W;
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

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCI 5708 Architecture and Implementation of Database Management Systems
3 credit(s); prereq 4707 or 5707 or instr consent;
Instructor: Shekhar, Shashi
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
Description: Software engineering is concerned with the cost effective development and evolution of software systems. In this course we will explore techniques that can be considered advanced? software engineering techniques?that is, techniques and topics we did not have the time to cover properly in an overview course such as CSci 3081 and 5801. The course will cover various topics in requirements engineering, formal modeling, model-based development, product family engineering, testing, and verification. Note that depending on the offering of the course, only a subset of the topics will be covered. The course introduces the techniques through lectures and by giving you a chance apply the techniques to smaller case examples. The examples will in most cases be developed in small teams. You must have taken CSci 4081 or CSci 5801 before this course (or acquired equivalent knowledge from other sources). In addition, you should have knowledge of some higher level programming language (such as, C, C++, Ada, Pascal, or Java). You are expected to know basic data structures (such as, lists, sets, and trees), algorithms (such as, sorting, searching, and tree traversals), recursion, data abstraction, and finite state machine models. Finally, knowledge of discrete mathematics is an advantage.

Style: 60% Lecture, 20% Discussion, 20% Student Presentation.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions 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 completions 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 completions allowed; prereq instr consent; may be repeated for cr;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

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

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

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent; may be repeated for cr;
Instructor: Hopper, Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent; may be repeated for cr;
Instructor: Yew, Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent; may be repeated for cr;
Instructor: Zhang, Zhi-Li
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions 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 completions allowed; prereq instr consent; may be repeated for cr;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent; may be repeated for cr;
Instructor: Riedl, John T
Description: Student may contact the instructor or department for information.

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

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

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent; may be repeated for cr;
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 completions allowed; prereq instr consent; may be repeated for cr;
Instructor: Kumar, Vipin
Description: Student may contact the instructor or department for information.
CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

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

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

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
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 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Hsu, Wei Chung
Description: Student may contact the instructor or department for information.

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

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

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

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

CSCI 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Schuler, William Edward
Description: Student may contact the instructor or department for information.

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

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

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions 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 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Hopper,Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Yew,Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Zhang,Zhi-LI
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Barry,Phillip
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Konstan,Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Boley,Daniel L
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Barry,Phillip
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent ; may be repeated for cr;
Instructor: Papanikolopoulos,Nikolaos P
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq
instr consent ; may be repeated for cr;
Instructor: Heimdahl,Mats
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions 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 completions 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 completions allowed; prereq
instr consent ; may be repeated for cr;
Instructor: Kim,Yongdae
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions 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 completions allowed; prereq
instr consent ; may be repeated for cr;
Instructor: Kim,Yongdae
Description: Student may contact the instructor or department for information.

CSCI 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions 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 completions allowed; prereq instr consent; may be repeated for cr;
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 completions 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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Papanikolopoulos, Nikolaos P
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 completions 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 completions 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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Barry, Phillip
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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Zhang, Zhi-Li
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 completions 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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Karypis, George
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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Hopper, Nicholas 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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Yew, Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Zhang, Zhi-Li
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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Barry, Phillip
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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Zhang, Zhi-Li
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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Barry, Phillip
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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Zhang, Zhi-Li
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 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Konstan, Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq [CSci or CompE] major, instr consent;
Instructor: Barry, Phillip
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 completions allowed;
prereq [CSci or CompE] major, instr consent;
Instructor: Sturivant, 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 completions 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 completions 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 completions 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 completions 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 completions allowed;
prereq [CSci or CompE] major, instr consent;
Instructor: Heimdahl, Mats
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 completions 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 completions allowed;
prereq [CSci or CompE] major, instr consent;
Instructor: Gini, Maria L
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 completions allowed;
prereq [CSci or CompE] major, instr consent;
Instructor: Schrater, Paul Robert
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 completions allowed;
prereq [CSci or CompE] major, instr consent;
Instructor: Srivastava, Jaideep
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
prereq [CSci or CompE] major, instr consent;
Instructor: Interrante, Victoria
Description: Student may contact the instructor or department for information.

Instructor: Kuang, Rui
Description: Student may contact the instructor or department for information.

Instructor: Weissman, Jon B
Description: Student may contact the instructor or department for information.

Instructor: Hsu, Wei Chung
Description: Student may contact the instructor or department for information.

Instructor: Therven, Loren Gilbert
Description: Student may contact the instructor or department for information.

Instructor: Van Wyk, Eric
Description: Student may contact the instructor or department for information.

Instructor: Nadathur, Gopalan
Description: Student may contact the instructor or department for information.

Instructor: Meyer, Gary W
Description: Student may contact the instructor or department for information.

Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

Instructor: Roumeliotis, Stergos
Description: Student may contact the instructor or department for information.

Instructor: Kim, Yongdae
Description: Student may contact the instructor or department for information.

Instructor: Sturtivant, Carl
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq [CSci or CompE] major, instr consent; Instructor: Schuler, 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 completions allowed; prereq [CSci or CompE] major, instr consent; Instructor: Chandra, Abhisheek
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 completions 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 completions 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 completions allowed; prereq [CSci or CompE] major, instr consent; Instructor: Banerjee, Anindam
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 completions allowed; prereq [CSci or CompE] major, instr consent; Instructor: Keefe, Dan 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 completions allowed; prereq [CSci or CompE] major, instr consent; Instructor: Isler, Ibrahim Volkan
Description: Student may contact the instructor or department for information.

CSCI 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq [CSci or CompE] major, instr consent; Instructor: Barry, Phillip
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: Carlis, John Vincent
Description: Student may contact the instructor or department for information.

CSCI 8101 Advanced Operating Systems
3 credit(s); prereq 5103 or instr consent; Instructor: Tripathi, Anand R
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: Terveen, Loren Gilbert
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: Zhang, Zhi-Li
Description: Student may contact the instructor or department for information.

CSCI 8715 Spatial Databases and Applications
3 credit(s); prereq 4707 or 5707 or GIS 5571 or GIS 5573; Instructor: Shekhar, Shashi
Description: Student may contact the instructor or department for information.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CSCI 8790 Computer Science Colloquium
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Kim, Yongdae
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Swanson, Charles D
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Carlis, John Vincent
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Collins, John
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Karypis, George
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Hopper, Nicholas J
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Yew, Pen-Chung
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Barry, Phillip
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr 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 9, 9 completions allowed; prereq instr consent;
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr 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 9, 9 completions allowed; prereq instr consent;
Instructor: Riedl, John T
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions 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 9, 9 completions 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 9, 9 completions 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 9, 9 completions allowed; prereq
instr consent ;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions 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 9, 9 completions allowed; prereq
instr consent ;
Instructor: Van Wyk, Eric
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instr consent ;
Instructor: Vipin, Kumar
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instr consent ;
Instructor: Vouk, Rui
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instr consent ;
Instructor: Weidman, Jon B
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions 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 9, 9 completions allowed; prereq
instr consent ;
Instructor: Wu, Wei Chung
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions 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 9, 9 completions 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 9, 9 completions 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 9, 9 completions 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 9, 9 completions 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 9, 9 completions 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 9, 9 completions allowed; prereq
instr consent;
Instructor: Myers,Chad Leighton
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instr consent;
Instructor: Keefe,Dan F
Description: Student may contact the instructor or department for information.

CSCI 8991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instr consent;
Instructor: Isler,Ibrahim Volkan
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions 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 completions allowed; prereq
instr consent;
Instructor: Dovalis,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 completions 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 completions allowed; prereq
instr consent;
Instructor: Konstan,Joseph Andrew
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions 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 completions allowed; prereq
instr consent;
Instructor: Boley,Daniel L
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instr consent;
Instructor: Papanikolopoulos,Nikolaos P
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Riedl, John T
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 completions allowed; prereq
instructor consent;
Instructor: Janardan, Ravi
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 completions allowed; prereq
instructor consent;
Instructor: Saad, Yousef
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Sturdivant, Carl
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Kumar, Vinip
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 completions allowed; prereq
instructor consent;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Shragowitz, Eugene
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Du, David Hung-Chang
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Heimdalh, Mats
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 completions allowed; prereq
instructor consent;
Instructor: Shekhar, Shashi
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Gini, Maria L
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Schrater, Paul Robert
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Srivastava, Jaideep
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Interrante, Victoria
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Kuang, Rui
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Weissman, Jon B
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Huang, Rui
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: He, Tian
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor 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 completions allowed; prereq
instructor consent;
Instructor: Meyer, Gary W
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Van Wyk, Eric
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq
instructor consent;
Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Roumeliotis, Stergios
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 completions allowed; prereq instr consent;
Instructor: Kim, Yongdae
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 completions allowed; prereq instr consent;
Instructor: Schuler, William Edward
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 completions allowed; prereq instr consent;
Instructor: Chandra, Abhishek
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Zhai, Antonia Bingheng
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Mokbel, Mohamed F
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Banerjee, Arindam
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions 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 completions allowed; prereq instr consent;
Instructor: Keefe, Dan F
Description: Student may contact the instructor or department for information.

CSCI 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed; prereq instr consent;
Instructor: Isler, Ibrahim Volkan
Description: Student may contact the instructor or department for information.

199 McNeal Hall

CBIO 8001 Conservation Biology Seminar
S-N only, 1 credit(s), max credits 6, 6 completions allowed; prereq instr consent;
Instructor: Oberhauser, Karen S
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: Oberhauser, Karen S
Description: Student may contact the instructor or department for information.

CBIO 8005 Contemporary Problems in Conservation Biology
S-N only, 1 credit(s), max credits 3, 1 completion allowed; prereq 8004, FW 8452, instr consent;
Instructor: Jordan, Nicholas Royal
Description: Student may contact the instructor or department for information.

Construction Management
20 Classroom Office Building

CMGT 2019 AutoCAD for Construction Managers
S-N only, 2 credit(s); prereq 30 sem cr;
Instructor: Johnson, Ann M
Description: Introduction to AutoCAD software skills. Learn and apply the techniques of computer-aided design and drafting (CAD) at a job entry level of proficiency. Combined lecture and laboratory.

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 3011 Construction Plan Reading
2 credit(s);
Instructor: Kuehni, Rose Marie
Description: Introductory level course in construction plan reading and construction documents. Course materials include architectural, civil, mechanical, electrical drawings and project manual. The emphasis is on the development of skills necessary for the reading, understanding and interpretation of commercial construction plans and project manuals, including notes, symbols, and plan layout. This course is appropriate for third year Construction Management and CALA students, and at any time for students in IT and other colleges.

CMGT 4011 Construction Documents and Contracts
3 credit(s); prereq 3001, 45 sem cr;
Instructor: Hauser, Stephen George
Description: Definition, interpretation, and utilization of drawings; specifications; agreements; bidding forms; general conditions; bonds, contracts, subcontracts, and related documents. Appropriate provisions for minority business participation will be included such as tax exempt status and wage rates.

CMGT 4021 Construction Planning and Scheduling
3 credit(s); prereq 3001, [3011 or CE 4101], 45 sem cr;
Instructor: Styrlund, Kenneth Andre
Description:
CMGT 4021 Construction Planning and Scheduling
3 credit(s); prereq 3001, [3011 or CE 4101], 45 sem cr;
Instructor: Bozio, Karl J
Description: Concepts of project planning, scheduling, and control. Understanding project scheduling models with emphasis on the critical path method. Introduction to the techniques used in the industry utilizing commercial software on personal computers. The importance of periodic updating and analysis of schedules and of considering and understanding alternatives will be stressed.

CMGT 4022 Construction Estimating
3 credit(s); prereq 3001, [3011 or CE 4101], 45 sem cr;
Instructor: Hilger, Peter
Description: Purposes and uses of various kinds of estimates. Techniques for performing quantity take-off, organizing bidding process, requesting and analyzing subcontractor proposals, unit pricing, utilizing published resources, and preparing systems-based estimates. Personal computer programs, spreadsheets, and custom applications to be introduced and used. The linkages between estimates, budgets, cost control systems, and historical cost records will be established.

CMGT 4031 Construction Safety and Loss Control
3 credit(s); prereq 3001, 45 sem cr;
Instructor: Carroll, Mil

CMGT 4041 Specifications and Technical Writing for Construction Professionals
3 credit(s); prereq 4011 or Concurrent registration is required (or allowed) in 4011;
Instructor: Hilger, Peter
Description: Application of written communication throughout the construction process, including information gathering, bidding and contract documentation, project manual use and interpretation, and construction administration tools and processes related to communication from the perspectives of all team members (designers, contractors, owners, suppliers). In-depth technical writing exercises exploring a variety of communication formats will develop skills associated with effective communication.

CMGT 4051 Construction Materials for Managers
3 credit(s); prereq 3001, [AEEM 2011 or BP 3001 or BP 3101], 45 sem cr;
Instructor: Hale, Jupe
Description: Basic concepts of physical properties and behavior mechanisms for construction materials such as concrete, aggregate, steel, and wood. Standard specifications for material properties. Laboratory techniques for evaluation of each material.

CMGT 4111 Construction Productivity Management
2 credit(s); prereq 4021, 4022, CE 4101;
Instructor: Elthon, Dwight J
Description: The construction project superintendent, foreperson and the project manager of a construction project have the responsibility to manage and supervise a project in the most effective and efficient way possible. This course focuses on maximizing productivity through the supervision of labor, management of materials, equipment, job overhead and communications.

CMGT 4196 Construction Management Internship
S-N only, 1-4 credit(s), max credits 12, 3 completions allowed; prereq [CMgt major or minor or certificate student], [jr or sr], dept consent;
Instructor: STAFF
Description: Career preparation in construction management. Students will gain hands-on work experiences in a construction company, applying coursework in the work place, contributing knowledge of best practices to make a positive impact on the construction industry, and participate in career development exercises. Professional experience internship requirement for BASc in Construction Management. May take course maximum of 3 times at maximum 4 credits for total of 12 credits maximum. 1 credit equivalent to 1 month of internship.

CMGT 4542 Building Energy Systems
A-F only, 3 credit(s); prereq [3001, [jr or sr]] or instr consent;
Instructor: Jain, Nirmal
Description: Conceptual understanding of functions of building mechanical systems and their integration with other building components through case studies. Residential and commercial HVAC systems, alternative energy sources, energy efficiency, structural implications of mechanical systems, indoor air quality, and environmental control strategies.

CMGT 4550 Topics in Construction Management:
Sustainability for Construction Managers
A-F only, 2 credit(s), max credits 12, 6 completions allowed;
Instructor: Gondeck-Becker, Debra J.
Description: Sustainability in Construction Management.

Continuing Dental Education
6-406 Moos Tower

CDED 6101 Postgraduate Contemporary Esthetic Dentistry I:
Level I—Lecture/Laboratory Series
S-N only, 5 credit(s);
Instructor: Olin, Paul S
Description: Student may contact the instructor or department for information.

CDED 6202 Postgraduate Contemporary Esthetic Dentistry:
Level II—Patient Series
S-N only, 5 credit(s); prereq 6101;
Instructor: Olin, Paul S
Description: Student may contact the instructor or department for information.

CDED 7302 Postgraduate Contemporary Esthetic Dentistry:
Level III—Orthodontic and Periodontal Esthetics
S-N only, 1-1.5 credit(s), max credits 1.5, 1 completion allowed;
Instructor: Olin, Paul S
Description: Student may contact the instructor or department for information.

CDED 7307 Postgraduate Contemporary Esthetic Dentistry:
Level III—Technology in Restorative Dentistry
S-N only, 1 credit(s);
Instructor: Olin, Paul S
Description: Student may contact the instructor or department for information.

CSDY 8899 Seminar in Control Science and Dynamical Systems
107 Akerman Hall

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Cultural Studies and Comparative Literature
235 Nicholson Hall

CSCL 1001 Introduction to Cultural Studies: Rhetoric, Power, Desire
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Conley,John E
Description: What is literature? And, in what amounts to the same question, what does it have to offer us? This class will address both these questions, and assumes that literature and reading can tell us some profound things about our world and ourselves. In particular, this class will tackle some of the political and social implications of writing and reading. We will look at a number of different literary works--epic poetry, lyric poetry, short stories, novels, just to name a few--from a number of different places and historical periods. If you are interested in tough questions about literature, the world, and yourself, this class is for you.
Style: 70% Lecture, 30% Discussion.

CSCL 1101 Literature
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core;
Instructor: Conley,John E
Description: What is literature? And, in what amounts to the same question, what does it have to offer us? This class will address both these questions, and assumes that literature and reading can tell us some profound things about our world and ourselves. In particular, this class will tackle some of the political and social implications of writing and reading. We will look at a number of different literary works--epic poetry, lyric poetry, short stories, novels, just to name a few--from a number of different places and historical periods. If you are interested in tough questions about literature, the world, and yourself, this class is for you.
Style: 70% Lecture, 30% Discussion.

CSCL 1201 Introduction to Cinema and Media Culture
4 credit(s); Credit will not be granted if credit has been received for: SCMC 1201; Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: The emergence of what is variously referred to as the "Information Age" and "Society of the Spectacle" has made it necessary for us to think critically about the media. Since visual media have the most pervasive influence on our everyday lives, this course will focus on how forms such as advertising, film, and television work, affect perception, and structure meaning. We will read some of the most important theoretical and historical texts that provide insight into our "ways of seeing." No prior exposure to media theory is expected, but although this is an introductory class, students will be expected to read and work through challenging material. We will read a variety of critics who have attempted to analyze cinema and media culture and we will also begin to develop a vocabulary for formal visual analysis.

CSCL 1301W Reading Culture: Theory and Practice
4 credit(s); Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: CSCL 1301W Reading Culture: Theory and Practice 4 credits, meets Lib Ed req of Other Humanities Core; meets Lib Ed req of Writing Intensive Instructor: STAFF Description: This course turns on one central question: How do things 'mean'? Specifically, how do cultural texts mean in relation to each other and to human life in society and across history? 'Cultural texts' are made objects and forms of communication that encode messages and values, and that produce effects--anything from movies, TV shows, magazine ads and rock concerts to "high art" (paintings, classical music, plays, poems, etc.). The course specifically examines: (1) the role played by cultural forms in creating, maintaining or challenging social boundaries and power relationships; and (2) the ways art and culture function as sites where creative and alternative visions of the good life' come into being. Small classes emphasize close reading, discussion, and practice in critical writing. An introductory course in every sense, it's a good place to start thinking about what "culture" is and how it works. It will also help you develop reading and writing techniques useful for many courses and majors. Class Time: 40% lecture, 60% discussion

CSCL 1401W Reading Literature: Theory and Practice
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: CSCL 1401W Reading Literature: Theory and Practice 4 credits, meets Lib Ed req of International Perspect Theme; meets Lib Ed req of Literature Core; meets Lib Ed req of Writing Intensive Instructor: STAFF Description: What is Literature? How do definitions of it differ over time and across cultures? How does literature play a role in the ways people see themselves and others? How do our histories - personal and cultural - determine how we read it? CSCL 1401W examines such questions in relation to larger patterns of culture and power. You'll emerge from the course with a solid sense of the differences among various genres, and the cultural contexts from which they arise - between an epic poem emerging from a Greek city state and a novel by a German civil servant, say. Small classes emphasize close reading, discussion, and practice in critical writing. An introductory course in every sense, it will give you a good sense of the field of Comparative Literature as well as reading and writing skills useful in many other courses and disciplines. Class Time: 40% lecture, 60% discussion

CSCL 1501W Reading History: Theory and Practice
4 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: CSCL 1501W Reading History: Theory and Practice 4 credits, meets Lib Ed req of Historical Perspective Core; meets Lib Ed req of Writing Intensive Instructor: STAFF Description: What is history - is it what we get on The History Channel, or is it something else? Who controls it, who decides what gets included and what's important? Why has history become such a hot political topic - textbooks in schools, for example? This course examines such questions, starting from two assumptions: (1) that history can have explanatory power--it can tell us why things got to be the way they are; but (2) that all history comes to us in a mediated way, that is, as a "text" that encodes someone's or some group's version of it. Small classes focus on reading a variety of texts "in" history - the Mall of America, a Nazi rally, a 17th century Dutch painting; "history on television," the representation of the human body, etc., as well as some critical theory "about" history, designed to help you think about its importance, its uses and abuses. Class Time: 40% lecture, 60% discussion

CSCL 1921 Introduction to Film Study
4 credit(s); Credit will not be granted if credit has been received for: ARTH 1921W; Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: This course is about movies--what they are, how they work, and ways we can watch, read, and enjoy them with a critical eye. Our basic questions are: How do films make meaning? How do they construct a world for us, while (often) giving the impression that that constructed world is natural and inevitable? How do films position us as viewers and shape us as subjects? What is the relation between the film text and the political economy of the industry? We'll look at a wide variety of films from different times and places and consider some of the rich diversity of writing known collectively as Film Theory. This is a basic introductory course designed for those who love going to the movies, but want to understand them better.

CSCL 3115 Cinema and Ideology
4 credit(s); Meets CLE req of Other Humanities Core;
Instructor: Lokas,Michelle Yvonne

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CSCL 3173W The Rhetoric of Everyday Life
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Hubbard,Kysa Koerner
Description: How does "everyday life" - that is, the mundane, quotidian realm of the "ordinary" - contribute to the formation and regulation of human consciousness? What does your decision to go on a diet or to start seeing a shrink or to put that high school graduation money from Grandma into the stock market mean in this particular culture at this particular moment in time? What rhetorical, ideological, and material structures were in place that helped bring you to those decisions, or at minimum, made those decisions not only conceivable in the first place, but possible? What do these everyday choices and practices reveal about your personal identity, perceptions, thoughts, values, and ontological understanding of the world around you, not to mention the cultural, political, and socioeconomic forces positioning you - materially and symbolically - as a particular kind of person who relates to her/himself and others in particular kinds of ways? "The Rhetoric of Everyday Life" examines how the sights, sounds, myths, and texts surrounding us contribute to the constitution of our subjectivity(ies), to our beliefs regarding what's (im)possible, "normal," and "natural," and finally, to the ways in which we (don't) see and relate to power. We will read core works in semiotics, rhetoric, and Marxist theory, as well as qualitative sociology and Neo-Marxist critique, "trying on" these theoretical glasses, and applying them to everyday life. Engaging texts as multi-varied and seemingly incongruous as vitamin ads, a Chinese blue jeans factory, Star magazine, and mainstream news coverage of politics and the economy, we'll pay particular attention to the dynamic relationship between consumer capitalism, politics, and the rhetoric, expectations, and practices of contemporary citizenship.
Style: 40% Lecture, 20% Film/Video, 30% Discussion, 10% Small Group Activities.

CSCL 3173W The Rhetoric of Everyday Life
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Hudecova,Eva Ruth
Description: Student may contact the instructor or department for information.

CSCL 3176 Oppositional Cinemas
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Stoddard,Matthew Donald
Description: Student may contact the instructor or department for information.

CSCL 3177 On Television
4 credit(s);
Instructor: Labidi,Imed
Description: That the impact of television on our daily life, political views, and social habits is stronger than ever before is perhaps unarguably correct. Television, consumer society, and the culture of commercialism, as Benjamin would argue replaced the real world by representations of the real. Sustained with the rapid reproduction and replication of auditory and visual images, embedded messages, and manipulative advertising strategies, these simulations serve to validate ideas about culture, behavior, gender, race, class, and social interaction, while promoting commercial values. Hence, the purpose of this course is to use a variety of critical approaches to study mass media and address analytical questions such as: who owns the media? Who are the architects behind certain programs? What are their intentions? Has television been transformed into an elitist instrument of hegemony? And how does it manage to shape consciously or subconsciously our beliefs, attitudes, and understanding of abstract concepts such as beauty? Answers to these questions help us understand the role television developed over time. Through the study of different formats of production, theories of spectatorship, and the alliance between television and the state we uncover certain how propagandist ideas are transmitted to legitimate discipline, obedience, and conformity and place them among the highest values in society. Readings: 50-100 pages Assignments: 3 Essays, 1 presentation, a final 8-page paper.

CSCL 3177 On Television
4 credit(s);
Instructor: Hudecova,Eva Ruth
Description: It was the German theoretician Theodor Adorno who argued that the manner in which members of advanced industrial societies spent their "free time" had in fact nothing to do with relaxation and was only a way to keep the working citizen in a regular routine. Watching TV at night after a long day's work had no enjoyment in it. The TV-viewer did not 'collect' any food for thought or discussion. It was a bland, brainless activity that gave the worker the illusion of not having worked while in actuality being a mere extension of work. TV, with its own specific routine prepared the viewer for the routine of the coming day. These are the kinds of -- still widely believed -- reservations a course dealing with a critical examination of the current world of TV and TV criticism will have to face. Some of the examined questions will be: What is entertainment? What makes the private watching of TV in our living rooms TV different from other forms of entertainment? Is TV a useful escape from the world or is it a dangerous threat to the world? Or, is TV, as a key element of reality, filled with contradiction and struggle? TV mediates relationships, whether it is on the inter-personal level, between races, classes, or in our relationship to technology. It is constantly changing. It is the largest export of the USA. And, as many have argued, it is one of the most important nation-building factors in the USA. TV has made the private public in a way no other medium heretofore ever has. These are just a few of the reasons to build a critical vocabulary and develop a watchful eye towards something that takes up significant sections of the day for many of us.

CSCL 3178W Documentary Cinema: History and Politics
4 credit(s); Meets CLE req of Writing Intensive;
Instructor: Lokas,Michelle Yvonne
Description: This course will cover history and the 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. Films are from authors including Deleuze, Affron, Nichols and Renov. Films include MAN WITH A MOVIE CAMERA, PARADISE LOST, DARE TO TELL THE TRUTH, SENIORITA EXTRAVIADA, and HOOP DREAMS.

CSCL 3321W Theories of Culture
3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Opitz,Andrew Michael
Description: How do we use "culture" to make sense of our place in the world and what does it mean to study culture in a department of cultural studies? It turns out that there are no easy answers to these questions. Culture is a seemingly simple but ultimately rather complicated term. Scholar Raymond Williams 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, Roland Barthes, Sigmund Freud, Karl Marx, Antonio Gramsci, Theodor Adorno and Franz Fanon. Style: 45% Lecture. 10% Film/Video, 45% Discussion. Grading: 40% reports/papers, 20% quizzes, 20% journal, 10% class participation, 10% other evaluation.

CSCL 3331 Science and the Humanities
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core;
Description: How does science help us understand the role of science and technology in the world or is it a dangerous threat to the world? Or, is science, as a key element of reality, filled with contradiction and struggle? Science mediates relationships, whether it is on the inter-personal level, between races, classes, or in our relationship to technology. It is constantly changing. It is the largest export of the USA. And, as many have argued, it is one of the most important nation-building factors in the USA. Science has made the private public in a way no other medium heretofore ever has. These are just a few of the reasons to build a critical vocabulary and develop a watchful eye towards something that takes up significant sections of the day for many of us.
Description: Driving to my doctor, I passed a health-food store advertising shark cartilage to "rebuild damaged joints." Doctor Mike said "eating dead sharks won't fix your knee." That night, as researchers I attended a Charismatic healing service at which people threw away crutches and walked. Each of these 'medical events' involved money-exchange; each assumed a theory of the body. My doctor works from 'normal science'; the health food store from 'alternative medicine'; Reverend Bob Larson from 'faith.' The narratives supporting these three 'theories' of human nature are contradictory, each with a definable history, each setting relations to knowledge, politics, economics and their supporting discourses. How do the different discourses of 'science' and 'the humanities' construct human nature, the societies we inhabit, and the consciousness through which we encounter our worlds? How do the different histories behind our conceptions help us understand how we got our political, religious and scientific beliefs, our sense of what's logical, natural and believable? We'll read central works in science and the humanities to support 'case studies' of conflict over human nature and society: issues of intelligence, genetic determinism, racial and gender identity, medicine, evolution.

Style: 50% Lecture, 30% Discussion.
Grading: 15% midterm exam, 15% final exam, 40% reports/papers, 15% in-class presentation, 10% class participation.

Exam Format: Essay

CSCL 3456W Sexuality and Culture
3 credit(s); Meets CLE req of Cultural Diversity Theme;
meets CLE req of Writing Intensive;
Instructor: Hubbard, Kysa Koerner
Description: Student may contact the instructor or department for information.

CSCL 3456W Sexuality and Culture
3 credit(s); Meets CLE req of Cultural Diversity Theme;
meets CLE req of Writing Intensive;
Instructor: Snaza, Nathan John
Description: Student may contact the instructor or department for information.

CSCL 3456W Sexuality and Culture
3 credit(s); Meets CLE req of Cultural Diversity Theme;
meets CLE req of Writing Intensive;
Instructor: Conley, John E
Description: In this class, both terms -- sexuality and culture -- will be thought and rethought by way of yet one more key term: history. In other words, how do sexuality, culture, and history inform, condition, and produce one another? We will look at a range of cultural texts and practices -- including but not limited to literature, visual art, philosophy, film, and critical essays -- in order to come to terms with not only what we talk about when we talk about sex, but the ways in which the concepts, ideas, and practices of sexuality have come to be fused and confused with such terms as identity, violence, danger, power, and criminality, just to name a few. Count on serious lectures, readings and discussions that question -- rather than reinforce -- what we "know" and how we "know" it.

Style: 60% Lecture, 40% Discussion.

CSCL 3458W The Body and the Politics of Representation
3 credit(s); Meets CLE req of Historical Perspective Core;
meets CLE req of Writing Intensive;
Instructor: Gasterland-Gustafsson, Gretchen
Description: We will in this course investigate the history of representations of the human body, primarily Western European representations from about 1500 to the present, and later American representations. What are the roles and positions that the body has occupied in Western thought, philosophy and cultural practice? Why do certain positions attained a privileged status over others? How has the corporeal body been shaped, formed, molded, and adorned to conform to the changing historical demands and ideals of society? What is the experience of embodiment in these given cultural contexts? We will address these questions to a wide range of materials including visual art in the forms of film, photography, performance, installations, oil paintings, and sculptures, as well as literary representations. In order to facilitate discussion and enhance class participation, every week a group of students will be responsible for a 20 minute presentation designed in conjunction with the instructor to both add to and complement the materials examined that week. Other requirements are short weekly response papers, a midterm essay, and a final paper and presentation.

CSCL 3458W The Body and the Politics of Representation
3 credit(s); Meets CLE req of Historical Perspective Core;
meets CLE req of Writing Intensive;
Instructor: Hubbard, Kysa Koerner
Description: How do bodies mean? Fat. Thin. Rich. Poor. Can we trace - at least in part - the (Western) historical trajectory of these meanings? Body. Soul. Truth. Error. In what representational forms have these ascriptions been made manifest over culture and time in the West, and how do they continue to shape and inform the ways in which we are bodies and the ways in which we perceive/interpret/understand/ regulate them? As feminist philosopher Susan Bordo writes, "The body is not merely flesh and bone, but a surface of inscription, a locus of control, a malleable, intelligible embodiment of material culture and ideology" (1993). Following this, how do issues of gender, race, sexuality, and class figure in here? Can representations of the body ever be innocent? Good. Evil. Dirty. Clean. In this course, we will investigate the various (and nefarious) ways in which past and present Western cultures have codified the human body into socially-constructed, politically-loaded categories that work to both defer and delimit opportunities for and access to power. A history of philosophies of the body will provide a foundation for these inquiries, while sociological, semiotic, and critical theories will help us understand the complex relationships between our perceptions and presentations of the body, and the concrete, habituated ways we come to "embody" them. In short, over the course of fifteen weeks, we will: [1] study visual and textual representations and discourses of the body - historical and contemporary; [2] examine and theorize historical processes, materials, ideological and economic structures and systems that have gone into the (re)making of disciplined, "civilized," "habitualized" bodies; [3] explore philosophical and theoretical concepts that have shaped past and present thinking about the body itself, as well as in representation and practice; [4] engage issues of gender, race, sexuality and class as they have historically intersected and continue to intersect with ideas about and the regulation of marginalized bodies and their representation.

Style: 40% Lecture, 20% Film/Video, 30% Discussion, 10% Small Group Activities.

CSCL 3461 Monsters, Robots, Cyborgs
3 credit(s); Meets CLE req of Literature Core;
Instructor: Opitz, Andrew Michael
Description: This course proceeds from the assumption that monsters and monster stories are more than just scary entertainment; they have something to teach us. Monsters speak to our fears, of course, but they can also tell us about the changing social world in which we live?its pressures, relations of production/reproduction and models for correct behavior. Since monsters are almost always 'outsiders,' monster stories can also tell us something about rules for social belonging. Robots and cyborgs, with their machine brains and technologized mutations, play a similar social role. They are modern and postmodern monsters that embody our fears and hopes for the future. This course will enlist students in the careful and critical reading of a number of monster, robot and cyborg stories in hopes gaining a better understanding of their historical origins and changing cultural meanings. We will examine select literature, film and history texts, as well as scholarly essays addressing key issues in cultural theory, in an effort to make sense of these monstrous beings and their important place in popular culture.

Style: 50% Lecture, 20% Film/Video, 30% Discussion.
Grading: 20% final exam, 40% reports/papers, 20% additional semester exams, 10% attendance, 10% journal.
Exam Format: Multiple choice, matching and short answer.
CSCL 3621W Colonial and Postcolonial Literatures and Theory: 1700 to the Present 3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Tageldin, Shaden M Description: Student may contact the instructor or department for information.

CSCL 3910 Topics in Cultural Studies and Comparative Literature: Selected Writings in German Intellectual History 3 credit(s), max credits 24, 8 completions allowed; Instructor: Schulte-Sasse, Jochen Description: Selection of 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 Oldest Systematic Program of German Idealism (1796); Novalis, Soliloquy (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 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 Authoritative Character of Culture (1937); Martin Heidegger, The Age of the World Picture (1938); Max Horkheimer/Theodor W. Adorno, On the 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 3 credit(s), max credits 12, 4 completions allowed; Instructor: Casarino, Cesare Description: Student may contact the instructor or department for information.

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: Singh, Julietta Christine Description: Student may contact the instructor or department for information.

CSCL 5154W Theoretical Constructions of Space 3 credit(s); Meets CLE req of Writing Intensive; Instructor: Archer, John Description: People conceptualize, understand, fashion, and make use of the space in which we all exist in a variety of ways, the diversity of which becomes evident when examined across time and disciplines. The goals of this course are to obtain a sense of several principal strands of spatial thinking that have come to inform our present culture; and to inquire into the interests that they serve and sustain. Or, to put it differently, our agenda concerns the manners in which space articulates and sustains the interests and purposes of society. Our inquiries are located in various disciplines, including anthropology, architecture, geography, history, landscape design, philosophy, planning, and sociology. The readings concentrate on the Western Enlightenment heritage from Locke to the late 20th century, including phenomenological, structuralist, poststructuralist, marxist, feminist, and materialist perspectives. Student projects are encouraged to analyze other temporal, geographic, and theoretical modes of space in order to understand limitations of present formulations, and explore ground for new possibilities.

Style: 60% Lecture, 20% Discussion, 20% Web Based.

CSCL 5302 Aesthetics and the Valuation of Art 3 credit(s); Credit will not be granted if credit has been received for: CSDS 5302; Instructor: Schulte-Sasse, Jochen Description: Course readings will include major essays on the relationship of aesthetic theory, ideology, and value/evaluation of art from Friedrich Nietzsche and Walter Benjamin to Jan Mukarovsky, Louis Althusser, Paul de Man, Barbara Herrnstein Smith, Hayden White, Stephen Heath, Kaja Silverman and Teresa De Lauretis. Issues the course will focus on involve the role of aesthetics since the eighteenth century, the relationship between ideology and value/evaluation, the role of identification and the desire for identity in the evaluation of art, and the politics of evaluation.

Style: 30% Lecture, 70% Discussion.

Grading: 80% reports/papers, 20% class participation.

Exam Format: short essay

CSCL 5910 Topics in Cultural Studies and Comparative Literature: Marx, Freud, Nietzsche: Intellectual, Foundations 3 credit(s), max credits 24, 8 completions allowed; Instructor: Brennan, Timothy Andres Description: Student may contact the instructor or department for information.

CSCL 5910 Topics in Cultural Studies and Comparative Literature: Sanskrit Drama 3 credit(s), max credits 24, 8 completions allowed; Instructor: Sawhney, Simona Description: Student may contact the instructor or department for information.

CSCL 5910 Topics in Cultural Studies and Comparative Literature: Literature: Sanskrit Drama 3 credit(s), max credits 24, 8 completions allowed; Instructor: Sawhney, Simona Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CI 1001 Introduction to the Elementary School
A-F only, 3 credit(s);
Instructor: Mogush, Patsy H
Description: Three modules focus on important aspects of contemporary urban elementary school teaching: the principal's role, the teacher's role, and the students. Central to each module are school-based visits, observations, and interviews.

CI 1002 Introduction to the Elementary School
A-F only, 3 credit(s);
Instructor: Byrn, Katherine Margaret
Description: This course is intended to be a beginning course for undergraduate students considering a career in elementary education. Students examine various aspects of elementary schools and teaching, including school contexts and organization, standards, curriculum, assessment, policy, culture and diversity, contemporary students, and the role of the teacher. The course includes school visits.
Style: 30% Lecture, 40% Discussion, 15% Laboratory. small group projects
Grading: 13% mid exam, 25% final exam, 32% reports/papers, 15% special projects, 15% class participation. Course includes group projects
Exam Format: Multiple choice, short answer

CI 1903 Freshman Seminar: Citizenship and Public Ethics
1-3 credit(s), max credits 6; prerequisite Fr; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Byrn, Katherine Margaret
Description: Interdisciplinary seminar. Topics specified in Class Schedule.

CI 1911 Ethics, Wealth, and Education in a Democracy
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Smalkoski, Kari Ann
Description: Relationship between democratic citizenship and education. Role of economics/ethics in defining character of education. Relationship between school/university programs and citizenship. Relevance of education in contemporary society.

CI 3211 Introduction to Elementary Teaching
A-F only, 3 credit(s); prerequisite [Elementary ed or early childhood ed foundations major], concurrent practicum experience:
Instructor: Byrn, Katherine Margaret
Description: Student may contact the instructor or department for information.

CI 3211 Introduction to Elementary Teaching
A-F only, 3 credit(s); prerequisite [Elementary ed or early childhood ed foundations major], concurrent practicum experience:
Instructor: DeLapp, Peggy Reed
Description: Student may contact the instructor or department for information.

Cl 3212 Practicum: Elementary Teaching
S-N only, 2 credit(s); prerequisite Concurrent registration is required (or allowed) in 5111, [elementary education foundations or early childhood foundations] major;
Instructor: Puntil, Gemma
Description: Student may contact the instructor or department for information.

Cl 3212 Practicum: Elementary Teaching
S-N only, 2 credit(s); prerequisite Concurrent registration is required (or allowed) in 5111, [elementary education foundations or early childhood foundations] major;
Instructor: Ennser-Kananen, Johanna
Description: Student may contact the instructor or department for information.

CI 3283 Practicum: Special Education K-6
S-N only, 2 credit(s); prerequisite Concurrent registration is required (or allowed) in EDPSY 5613, Concurrent registration is required (or allowed) in EDPSY 5616, elementary education: foundations major;
Instructor: Lee, Heeyeon
Description: Field-based practicum. Students apply learning from their university course in elementary school setting, linking theory, research, and practice.

Cl 3401 Diversity in Children's Literature
A-F only, 3 credit(s); prerequisite Jr or sr or instr consent;
Instructor: Brendler, Beth
Description: Classic/contemporary books for children in all genres, created by authors/illustrators. Research in transactional theory. Cultural authenticity. Reading, discussion, group activities, interactive lectures, projects.

Cl 3401 Diversity in Children's Literature
A-F only, 3 credit(s); prerequisite Jr or sr or instr consent;
Instructor: Gaida, Lee
Description: Classic/contemporary books for children in all genres, created by authors/illustrators. Research in transactional theory. Cultural authenticity. Reading, discussion, group activities, interactive lectures, projects.

Cl 3401 Diversity in Children's Literature
A-F only, 3 credit(s); prerequisite Jr or sr or instr consent;
Instructor: Coffino, Kara Lee
Description: Classic/contemporary books for children in all genres, created by authors/illustrators. Research in transactional theory. Cultural authenticity. Reading, discussion, group activities, interactive lectures, projects.

Cl 4413 Practicum: Working with Developing Readers
S-N only, 2 credit(s); prerequisite Concurrent registration is required (or allowed) in EPSY 5413, elementary education foundations major;
Instructor: Frederick, Amy Rae
Description: Student may contact the instructor or department for information.

Cl 4413 Practicum: Working with Developing Readers
S-N only, 2 credit(s); prerequisite Concurrent registration is required (or allowed) in EPSY 5413, elementary education foundations major;
Instructor: Mahowald, Megan Catherine
Description: Student may contact the instructor or department for information.

Cl 5008 Theory and Practice of Teaching Art in Elementary Schools
A-F only, 1-2 credit(s), max credits 3, 1 completion allowed;
Instructor: Delisle, Heather Ann
Description: Art concepts, skills, and processes appropriate for elementary school. Methods of art instruction. Children's production of/responses to art.

Cl 5008 Theory and Practice of Teaching Art in Elementary Schools
A-F only, 1-2 credit(s), max credits 3, 1 completion allowed;
Instructor: Delisle, Heather Ann
Description: Art concepts, skills, and processes appropriate for elementary school. Methods of art instruction. Children's production of/responses to art.
CI 5008 Theory and Practice of Teaching Art in Elementary Schools
A-F only, 1-2 credit(s), max credits 3, 1 completion allowed;
Instructor: Brennan, Colleen Kelly
Description: Art concepts, skills, and processes appropriate for elementary school. Methods of art instruction. Children's production of responses to art.

CI 5050 Issues in Art Education
3 credit(s), max credits 12, 12 completions allowed;
Instructor: Garber, Marilyn Ann
Description: Issues/trends, current practices, recent research.

CI 5097 Student Teaching in Art Education
S-N only, 8 credit(s); prereq Licensure student in art ed;
Instructor: STAFF
Description: Observation of, participation in, and supervisory experiences with various types and levels of art classes.

CI 5145 Critical Pedagogy
A-F only, 3 credit(s);
Instructor: Lensmire, Timothy J.
Description: Dominant groups determine dominant meanings, 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 5155 Contemporary Approaches to Curriculum: Instruction and Assessment
A-F only, 3 credit(s); prereq Grad students only;
Instructor: Casey, Zachary Anders
Description: Student may contact the instructor or department for information.

CI 5177 Practical Research
A-F only, 3 credit(s); prereq CI MEd student, or CI or EdPA Teacher Leadership MEd student;
Instructor: STAFF
Description: Preparation for identifying a research and development topic, reviewing the existing knowledge on the topic, planning and carrying out a project, further investigating the topics, and writing a report on the project.

CI 5181 Clinical Experience in Elementary School Teaching
S-N only, 2-8 credit(s), max credits 16, 3 completions allowed; prereq Foundations of education and elem ed initial licensure only;
Instructor: Carlson, Ann Ruhl
Description: Students spend full days in the elementary classroom gradually assuming responsibility for teaching the class. Students prepare a portfolio based on criteria given. One seminar per week.

CI 5181 Clinical Experience in Elementary School Teaching
S-N only, 2-8 credit(s), max credits 16, 3 completions allowed; prereq Foundations of education and elem ed initial licensure only;
Instructor: Clevette, EdD, Cathleen A.
Description: Students spend full days in the elementary classroom gradually assuming responsibility for teaching the class. Students prepare a portfolio based on criteria given. One seminar per week.

CI 5183 Applying Instructional Methods in the Elementary Classroom
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: Research or evaluation project related to teaching, curriculum, or other aspect of schooling. Approved and supervised by faculty advisor.

CI 5183 Practicum: Improvement of Teaching in Elementary or PreKindergarten Schools
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed; prereq Med student in elem or early childhood ed;
Instructor: STAFF
Description: Elementary school classroom teaching project designed to improve specific teaching skills. Approved and directed by advisor.
CI 5190 Directed Individual Study in Curriculum and Instruction
1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad student, instr consent 
Instructor: STAFF
Description: Directs students to individual studies that focus on producing and evaluating curriculum materials; literature review of issues and problems; and assessing curriculum processes.

CI 5323 Online Learning Communities
A-F only, 3 credit(s);
Instructor: Doering, Aaron H
Description: Students design/research an online learning environment that promotes community. What community is, how it fosters learning in educational learning environments. Theories of distance learning instruction. Community models. Technological tools to develop online communities.

CI 5327 Designing Online Adventure Learning
A-F only, 3 credit(s);
Instructor: Doering, Aaron H
Description: Designing, developing, and integrating adventure learning environments in K-16. Examples of effective adventure learning environments.

CI 5330 Topics in Instructional Systems and Technology
1-3 credit(s), max credits 12, 12 completions allowed;
Instructor: Scharber, Cassie Marie
Description: Topics related to needs of in-service teachers. Topics, location, credits, and duration are flexible.

CI 5336 Planning for Multimedia Design and Development
3 credit(s);
Instructor: Miller, Charles Devaughn
Description: Theory, research, practice in instructional design. Generic components of instructional design process. Applying principles to design/development of computer-based instructional materials.

CI 5361 Teaching and Learning with the Internet
3 credit(s); prereq credit will not be granted if credit already received for: BIE 5662;
Instructor: STAFF
Description: Examination of the capabilities of the Internet for professional development and instructional use. Use of specific client/server software for accessing the Internet, instructional issues and opportunities; implications for K-12 student involvement and classroom management; and Web page development by teachers and their students. Previous experience with computers desirable.

CI 5362 Foundations of Interactive Design for Web-based Learning
3 credit(s); prereq credit will not be granted if credit already received for: BIE 5016;
Instructor: Reinartz Jr, Thomas Joseph
Description: Student may contact the instructor or department for information.

CI 5367 Interactive Multimedia Instruction
A-F only, 3 credit(s); prereq Knowledge of principles and procedures of CBI design and one multimedia authoring system;
Instructor: Miller, Charles Devaughn
Description: In this course, we will explore a variety of common design heuristics; however, you will modify these to meet and continually refine your personal design perspective and style. We will become better designers through discussion, research, exploration, collaboration, development, and simply?design. Ultimately, we will form small design teams to explore unique instructional problems and develop, implement, and evaluate innovative instructional design solutions. Parallel to student design and development, we will examine the design lifecycle and authentic context of two Learning Technologies projects that will be in production during the Spring semester: 1) GeoThentic - an online environment that creates opportunities for students to learn with geospatial technologies by solving authentic, complex problems, and 2) AvenueDHH - A Flash-based progress-monitoring intervention in the area of reading, writing, and language development for use with children who are deaf or hard-of-hearing. Students with basic design and development skills in at least one of the following domains (HTML, CSS, Flash, PhotoShop, PHP/ASP, JavaScript, database design, Flash Media Server, FLEX, video editing, etc.) are encouraged to sign up for the course.
Style: 20% Discussion, 40% Small Group Activities, 40% Studio.

CI 5402 Introduction to Special Collections
A-F only, 3 credit(s); prereq Children's lit course;
Instructor: Galda, Lee
Description: Have you ever wondered how a book you loved came into being? How a favorite author created a story, poem, or informational text that entranced you? How an artist was able to create illustrations that added multiple layers of meaning to a picturebook text? CI 5402. Introduction to Special Collections, offers you the opportunity to explore a wealth of manuscripts, original art and letters that surround the creation of memorable children's and young adult books. Material from the Kerlan Collection that ranges from Wanda Gag's creation of MILLIONS OF CATS to Kate DiCamillo's drafts of Newbery Award winner TALE OF DESPEREAUX and Karen Hesse's drafts of her Newbery winner, OUT OF THE DUST, is a primary source for explorations of the art and craft of creating memorable books. Each student works individually, with professor consultation and group support as needed, to create a paper for publication or presentation. Come join us!
Style: 20% Lecture, 30% Discussion, 50% Laboratory.
Grading: 100% reports/papers.

CI 5410 Special Topics in the Teaching of Literacy
1-3 credit(s), max credits 12, 12 completions allowed;
Instructor: Swiss, Thom
Description: Student may contact the instructor or department for information.

CI 5413 Teaching Students with Reading Difficulties
A-F only, 3 credit(s); prereq 5412;
Instructor: Mahowald, Megan Catherine
Description: Student may contact the instructor or department for information.

CI 5413 Teaching Students with Reading Difficulties
A-F only, 3 credit(s); prereq 5412;
Instructor: Helman, Lori A
Description: Student may contact the instructor or department for information.

CI 5422 Teaching Writing in Schools
A-F only, 3 credit(s);
Instructor: Lensmire, Timothy J.

CI 5425 Reading Instruction in the Elementary Grades
A-F only, 3 credit(s); prereq [Elementary or early childhood] licensure student;
Instructor: Jacobson, Mary J
Description: Curricular/methodological issues in teaching of reading. Reading/orthographic processes, strategy instruction for word recognition/comprehension, authentic assessment strategies, and teaching diverse students.

CI 5425 Reading Instruction in the Elementary Grades
A-F only, 3 credit(s); prereq [Elementary or early childhood] licensure student;
Instructor: Kelly, Catherine Maureen
Description: Curricular/methodological issues in teaching of reading. Reading/orthographic processes, strategy instruction for word recognition/comprehension, authentic assessment strategies, and teaching diverse students.

CI 5426 Language Arts Instruction in the Elementary Grades
A-F only, 3 credit(s); prereq Elementary or early childhood
CI 5426 Language Arts Instruction in the Elementary Grades
A-F only, 3 credit(s); prereq Elementary or early childhood licensure student;
Instructor: Jacobson, Mary J
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: Rummel, Andrew Michael
Description: Student may contact the instructor or department for information.

CI 5435 Instructional Leadership in Preventing Reading Difficulties
A-F only, 3 credit(s); prereq 5434;
Instructor: Helman, Lori A
Style: 30% Lecture, 30% Discussion, 15% Small Group Activities, 15% Demonstration, 10% Web Based.
Grading: 15% final exam, 10% reports/papers, 75% special projects. Tutoring of a struggling reader required.

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: Biggs, Brad
Description: Web-based course for content disciplines whose primary responsibility is to foster students' reading related to learning from text.

CI 5461 Teaching Composition in the Secondary School
A-F only, 2 credit(s);
Instructor: Jones, Heidi J

CI 5481 Developments in Teaching English and Speech
A-F only, 3 credit(s);
Instructor: Psycher, Tracey Michelle

CI 5496 Directed Experiences in Teaching English
S-N only, 8 credit(s); prereq MEd/initial licensure students in English ed only;
Instructor: STAFF
Description: Student teaching/clinical experience for English post-baccalaureate students only.

CI 5501 Teaching Science and Health in the Elementary School
A-F only, 2 credit(s); prereq Elem ed initial licensure only;
Instructor: Upadhyay, Bhaskar
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: Roehrig, Gillian Heather
Description: Student may contact the instructor or department for information.

CI 5533 Foundations of Science Education
A-F only, 3 credit(s); prereq M.Ed., grad student, or instr consent;
Instructor: Finley, Fred N
Description: Analysis of present science teaching practices in light of historical and philosophical foundations of science education.

CI 5538 Research-based Decision-making in Science Education
A-F only, 3 credit(s); prereq MEd or grad student or instr consent;
Instructor: Flynn, Leslie
Description: Nature of research and data-driven decision-making in science education. Focuses on analysis, interpretation, and impact of research on science education. Developing/conducting research. Students discuss, analyze, and present research.

CI 5597 Clinical Experience in Secondary School Science Teaching
S-N only, 4-8 credit(s), max credits 8, 1 completion allowed;
Instructor: STAFF
Description: Supervised clinical experience in secondary school science teaching.

CI 5634 Content-Based Instruction in Second Language Settings
A-F only, 3 credit(s); prereq SLC initial licensure only;
Instructor: Ramney, Susan Elaine
Description: Content-based language instruction: principles, models and methods; learning strategy instruction; developing content-based language curriculum; traditional and alternative approaches to assessing cognitive-academic language proficiency; use of technology to enhance content-based instruction.

CI 5635 Culture and Diversity in Second Language Classrooms
3 credit(s); prereq initial licensure program only;
Instructor: King PhD, Kendall Amy
Description: Developing skills for teaching a diverse student population in both foreign language and English as a second language instructional settings through study, practice, and reflection.

CI 5642 The Assessment of Learners with Limited English Proficiency
A-F only, 3 credit(s);
Instructor: Walker, Constance L
Description: Explores policies, procedures, and instruments in use in assessing the English language proficiency and academic readiness of limited English proficient students in American public schools; academic competence, bilingualism and special needs populations; alternative assessment; preparation of students for mainstream classrooms.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CI 5644 Working with Linguistically and Culturally Diverse Students in the Mainstream Classroom  
1 credit(s);  
Instructor: Stolpestad,Amy O'Connor  
Description: Benefits and challenges of working with linguistically and culturally diverse students; instructional practices and strategies; issues related to language learning, cultural considerations, and integration of culturally and linguistically diverse learners in the classroom.

CI 5644 Working with Linguistically and Culturally Diverse Students in the Mainstream Classroom  
1 credit(s);  
Instructor: Aleixo,Marina Bandeira  
Description: Student may contact the instructor or department for information.

CI 5657 Speaking and Listening in a Second Language  
A-F only, 3 credit(s);  
Instructor: Liu,Kristin Kline  
Description: Theories and methods in teaching language as communication in oral and aural modes; planning student interaction; classroom organization for oral language learning and acquisition; using technology to enhance interaction; assessment of listening comprehension and oral communication.

CI 5660 Special Topics in the Teaching of Second Languages and Cultures  
3 credit(s), max credits 12, 12 completions allowed;  
Instructor: Ranney,Susan Elaine  
Description: This course will help ESL teachers, as well as content area teachers, develop the expertise they need to deliberately target academic language skills. The course will raise awareness of the academic language structures and functions needed for success in content classes, and it will guide teachers to develop a range of instructional strategies to integrate academic language development with instruction and assessment in content areas. Some of the issues to be addressed in the course are: 1) What are the linguistic differences between informal spoken English and formal written English? How do language learners acquire both types of English? 2) What are the language functions and discourse patterns that are required in schools? How do the language demands of school vary by content area? 3) What is the intersection of language and content instruction? How can teachers create space for attention to language while focusing on content? 4) How does language proficiency interact with performance on standardized tests? 5) How can teachers scaffold academic language in instruction and assessment? Course requirements: Students will read current textbooks and research publications on the development of academic English and will analyze the language demands of academic materials. Students will have options for some of the readings as well as the course project in order to make them relevant to their particular areas of teaching or research.

CI 5662 Issues in Second Language Curriculum Design  
A-F only, 3 credit(s);  
Instructor: Rambow,Adam C  
Description: Historical overview of curriculum development in second language education; contexts that influence curriculum development; models for curriculum development in second language settings; politics of curricular reform; national and state standards and implications for curriculum development; effects of technology on second language curriculum.

CI 5672 Language-Focused Instructional Practices and Strategies  
3 credit(s); prereq instr consent;  
Instructor: Curran-Dorsano,Maureen  
Description: Student may contact the instructor or department for information.

CI 5693 Directed Study in Second Languages and Cultures  
1-4 credit(s), max credits 4, 1 completion allowed; prereq Instr consent;

CI 5699 Practicum: Teaching World Languages and Cultures in Elementary Schools  
2-6 credit(s), max credits 12, 4 completions allowed; prereq 5619, adviser approval; credits cannot be counted on a graduate degree program for endorsement candidates;  
Instructor: STAFF  
Description: Teaching and learning experiences in second languages and cultures at the elementary school level. Requires students to work in a public school setting.

CI 5697 Practicum: ESL in the Elementary School  
2-6 credit(s), max credits 6, 1 completion allowed; prereq Adviser approval;  
Instructor: STAFF  
Description: Teaching and learning experiences in an English as a second language setting at the elementary school level. Requires students to work in a public school setting.

CI 5698 Student Teaching in Second Languages and Cultures  
2-6 credit(s), max credits 14, 5 completions allowed; prereq Adviser approval; credits cannot be counted on a graduate degree program;  
Instructor: STAFF  
Description: Student teaching in Second Languages and Cultures at the secondary level for teachers already licensed in another field. Requires students to work in a public school setting.

CI 5699 Clinical Experiences in Second Languages  
A-F only, 6-8 credit(s), max credits 16; prereq SLC initial licensure program only;  
Instructor: Rambow,Adam C  
Description: Teaching and learning experiences in elementary and secondary second language instructional settings. Includes a seminar held concurrently to support the student teaching experience.

CI 5701 Teaching Social Studies in the Elementary School  
A-F only, 2 credit(s); prereq Elementary ed or early childhood ed initial licensure;  
Instructor: Harrington,Judith M.  
Description: Content/organization of elementary social studies programs. Programs of understanding. Improving the learning situation. Use of materials.

CI 5701 Teaching Social Studies in the Elementary School  
A-F only, 2 credit(s); prereq Elementary ed or early childhood ed initial licensure;  
Instructor: Beaton,Jehanne Helena  
Description: Content/organization of elementary social studies programs. Programs of understanding. Improving the learning situation. Use of materials.

CI 5744 Seminar: Reflecting on Professional Development in Social Studies Education  
A-F only, 3 credit(s); prereq Secondary social studies initial licensure student;  
Instructor: Jacobs,Benjamin M  
Description: Reflecting on teaching experience, examining social/cultural context of teaching/learning, developing a professional identity. Refining teaching and teacher research skills.

CI 5745 Engaging Youth With Social Studies Texts  
A-F only, 3 credit(s);  
Instructor: Harrington,Judith M.  
Description: Ways to engage students (grades 5-12) in social studies (textbooks, literature, speeches, editorials, political cartoons, tables, graphs, maps, film.). Developing middle/high school students' disciplinary literacy.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
CI 5746 Global and Multicultural Education in the Secondary Classroom
A-F only, 3 credit(s);
Instructor: Mayo Jr, J B
Description: Issues, classroom practices, and controversies surrounding global/multicultural perspective-taking in social studies education. Strategies for helping secondary social studies students develop global/multicultural worldviews.

CI 5747 Global and Environmental Education: Content and Practice
A-F only, 3 credit(s);
Instructor: Finley, Fred N
Description: Prepares educators for leadership responsibilities in the area of global environmental education. Focus on the knowledge and process skills necessary to carry out a leadership role in the curriculum

CI 5761 Social Studies Education for the Inservice Middle/Secondary Teacher
3 credit(s);
Instructor: Jacobs, Benjamin M
Description: Trends and issues in social studies education. Current developments and controversies in social studies pedagogy, curriculum, and assessment.

CI 5762 Developing Civic Discourse in the Social Studies
A-F only, 3 credit(s);
Instructor: Mayo Jr, J B
Description: This course is designed for middle and high school teachers, and other educators, who wish to improve the quality of discussions in their courses. Through reading and reflecting on educational philosophy, research, and techniques, we will explore key questions about the purposes and methods of incorporating discussion as an instructional strategy into social studies courses. A combination of papers, original lesson plans, and participation in various discussion techniques in class will help participants accomplish their goals, which will promote excellent classroom practices.
Style: 10% Lecture, 60% Discussion, 20% Small Group Activities, 10% Student Presentation.
Grading: 55% reports/papers, 30% special projects, 15% class participation.

CI 5782 Clinical Experiences in Teaching Social Studies
S-N only, 1-8 credit(s), max credits 7, 1 completion allowed;
prereq MEd/initial licensure student;
Instructor: Mayo, Jr J B
Description: This course constitutes the student teaching experience. The fall practicum (3 credits) and the spring placement (7 credits) use the same course designation, and neither counts toward the M.Ed.
Style: 100% Laboratory.
Grading: 100% laboratory evaluation.

CI 5821 Teaching Mathematics in the Elementary School
A-F only, 2 credit(s); prereq Elementary ed or early childhood initial licensure;
Instructor: STAFF
Description: Principles of learning pertinent to the modern program of mathematics in elementary grades. Objectives, content, philosophy, instructional materials and methods of instruction and evaluation.

CI 5900 Special Topics in Family, Youth, and Community
3 credit(s), max credits 20, 20 completions allowed;
Instructor: Englund, Lynn A.
Description: Topics not dealt with in regular courses. Topics vary by offering.

CI 5900 Special Topics in Family, Youth, and Community
3 credit(s), max credits 20, 20 completions allowed;
Instructor: Englund, Lynn A.
Description: This course will be of interest to family education students and others interested in exploring and reflecting on the richness, complexity, and diversity of family-life experiences.
Students will be asked to share stories of family-life experiences of their choosing related to various areas of family and home. Students will then examine some of the aims and ideals they hold family life and the contexts that may influence them. Students will use reflection to deepen their own understanding of the aims and ideals they hold for family life. Creating satisfying family life in the twenty-first century is challenging due to the complexity of demands on family members, the fast pace of life, and greater uncertainty in family roles. While family education has often focuses on helping families prevent or ameliorate specific problems of family life, few educational offerings have provided opportunities for individuals to step back from their experiences of family life to reflect on and critically examine the aims and ideals they hold for their family of origin, their future family, or current family life. Students will also examine the reflective pedagogical approach as they share everyday narratives of lived experience. The pedagogical approach is based on theories of reflective and experiential learning, social construction of knowledge, and group dynamics.
Style: 65% Discussion, 25% Small Group Activities, 10% Web Based.
Grading: 60% reflection paper, 20% in-class presentation, 20% other evaluation. 12 short reflective journal entries 700-1200 words in length (5% each, 60% total); Learning circle leadership and facilitation (20%); Final presentation and reflective paper (20%).
Exam Format: No exam.

CI 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, Susan K
Description: Education is a key component to effectively working for positive change for all families. Designing and delivering and understanding the impact of effective education programs is a skill required for any professional who works directly with or in support of families. This course supports the development of skill in two key perspectives of family education: outcomes-based education, and empowerment/sociocultural change. Through readings, discussion and applied activities students will explore the issues, theories and research for each perspective. Each student will demonstrate competency in the development of two programs representing each perspective as their final projects. The course emphasizes the use of technology in family education program delivery and invites students to be part of a growing dialogue on the use social media in human learning and development.
Style: 30% Lecture, 5% Film/Video, 50% Discussion, 10% Small Group Activities, 5% Student Presentation.
Grading: 75% reports/papers, 25% written homework.

CI 5923 Educational Strategies in Family Education
This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Credit(s)</th>
<th>Prereq</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI 5926</td>
<td>Family and Consumer Sciences Student Teaching III 8 credit(s); prereq 5925;</td>
<td>Lundell, Amy Jo</td>
<td>Full-time supervised teaching experience in family/consumer sciences programs. On-campus seminars.</td>
<td>8</td>
<td>5925</td>
<td></td>
</tr>
<tr>
<td>CI 5927</td>
<td>Family and Consumer Sciences Student Teaching IV 1 credit(s); prereq 5926;</td>
<td>Lundell, Amy Jo</td>
<td>Full-time supervised student teaching experience in family/consumer sciences programs.</td>
<td>1</td>
<td>5926</td>
<td></td>
</tr>
<tr>
<td>CI 5937</td>
<td>Parent-Child Interaction A-F only, 3 credit(s);</td>
<td>Cooke, Betty</td>
<td>Students will analyze and critique parent-child interaction theory and research, consider implications for parent-child relationships and parents' and children's development, and apply this course material to professional work with families. Course Objectives Students will: Analyze parent-child interaction theories and research for their significance in understanding parent-child relationships and parents' and children's development. Integrate parent-child interaction theories and research into professional practice. Deepen self-awareness through applying parent-child interaction theories to one's own situation. Course Overview This course combines research and practice to provide a comprehensive view of the skills and strategies parent educators will use as teachers. Students will continue to reflect and grow in their understanding of the professional role and competencies of a parent educator. Please view the short video introduction to this course at the Course URL listed below. Grading: Online Discussion (4 wk, 13 wks) 52 pts, Live Chats (4 wk, 11 wks) 44 Learning Reflection (4 wk, 7 wks) 28 Movie Analysis 14 Professional Practice 26 Case Anal Integration Paper 36 TOTAL=200</td>
<td>3</td>
<td>5926</td>
<td></td>
</tr>
<tr>
<td>CI 5942</td>
<td>Everyday Experiences of Families A-F only, 2 credit(s);</td>
<td>Englund, Lynn A</td>
<td>The course is presented in an eight weekly module course. Each of the eight modules will begin on a Wednesday and end on a Tuesday (no class interaction will occur March 15-21 during the week of spring break). Students are required to participate in the four live online chats from 7:30-7:45 p.m. during the time as shown in the schedule below. Module 1: Introduction and overview of the course. Students will review and discuss the course objectives. Module 2: Module 2 begins Wed 02/04, Mon 02/09, end Tue 02/10. Module 2 begins Wed 02/11, Mon 02/16, end Tue 02/17. Module 3 begins Wed 02/18, Mon 02/23, end Tue 02/24. Module 4 begins Wed 02/25, NO CHAT-03/02, end Tue 02/26. Module 5 begins Wed 03/04, Mon 03/09, end Tue 03/10. Module 6 begins Wed 03/11, NO CHAT-03/23 (spring break 03/15-03/21), end Tue 03/24. Module 7 begins Wed 03/25, Mon 03/30, end Tue 03/31. Module 8 begins Wed 04/01, Mon 04/06, end Tue 04/07. Style: 100% Web Based.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CI 5943</td>
<td>Parent Learning and Development: Implications for Parent Education A-F only, 2 credit(s);</td>
<td>Walker, Susan K</td>
<td>Students will examine adult, adolescent, and parent learning and development from the perspective of their relevance for parent education. Research information and a variety of theoretical perspectives will be presented and critiqued. Personal professional development will be facilitated through challenging assumptions and examining knowledge and competencies required for parent educators. This course meets a requirement for the Teachers of Parent and Family Education Minnesota Board of Teaching license. Course Goals: Students will: Analyze theories of adolescent, adult, and parent learning and development and their implications for parent education. Explores the nature of attachment and reciprocity in parent-child relationships. Examine the impact of parenting on the development and leadership? Develop insight into the parenting experience and development of parents through reflection on the lives of parents and theories of learning and development. Gain insight into professional development and parent education through critical reflection on one's assumptions about parent learning and development. NOTE: This is an 8-week, ONLINE course. Style: 60% Discussion. Grading: 62% written homework, 38% class participation.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CI 5945</td>
<td>Teaching and Learning in Parent Education A-F only, 2 credit(s);</td>
<td>Cutting, Beth J</td>
<td>Students select/use parent education teaching strategies/processes to meet needs of various populations of adult learners. Critical reflection, ethical practices, parent educator competencies.</td>
<td>2</td>
<td>5943</td>
<td></td>
</tr>
<tr>
<td>CI 5946</td>
<td>Assessment and Evaluation in Parent Education A-F only, 2 credit(s);</td>
<td>Walker, Susan K</td>
<td>Students will be introduced to theory, terminology, issues, and approaches in assessment and evaluation. Students will apply this new material to the tasks of monitoring program performance, assessing program quality, and measuring parent learning and development. This course is taught online for 8 weeks. Asynchronous weekly discussion, weekly synchronous discussion, and short reflection papers are regular features. Student activities include practical application of parent education program evaluation and review of instruments. This course meets a requirement for the Teachers of Parent and Family Education Minnesota Board of Teaching license, and is a required course in the Parent Education Certificate. Style: 100% Web Based.</td>
<td>2</td>
<td>5943</td>
<td></td>
</tr>
<tr>
<td>CI 5949</td>
<td>Student Teaching in Parent Education A-F only, 2 credit(s);</td>
<td>Brown, Michael Patrick</td>
<td>Supervised parent education practice to meet individual student needs/interests. Online discussion, reflection, cooperative learning.</td>
<td>2</td>
<td>5943</td>
<td></td>
</tr>
<tr>
<td>CI 5954</td>
<td>Experiential Learning: Pedagogy for Community and Classroom 3 credit(s);</td>
<td>Ross, Terrance Kwame</td>
<td>Supervised parent education practice to meet individual student needs/interests. Online discussion, reflection, cooperative learning.</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CI 5958</td>
<td>Community: Context for Youth Development Leadership A-F only, 3 credit(s);</td>
<td>Stein, Jerome A</td>
<td>Issues/policies in family, school, and community</td>
<td>3</td>
<td>5943</td>
<td></td>
</tr>
</tbody>
</table>
that drive the professional practice of community-based youth work. Practical projects explore what it means to be local, to build social capital for youth, and to involve youth in community change.

CI 5960 Seminar in Youth Development Leadership
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed; prereq YDL student or instr consent credit will not be granted if credit received for: WCPE 5451;
Instructor: Stein, Jerome A
Description: Student may contact the instructor or department for information.

CI 5962 Leadership Field Experience: Youth Development
S-N only, 4 credit(s); prereq YDL student;
Instructor: Stein, Jerome A
Description: Student may contact the instructor or department for information.

CI 5974 The Democratic Learning Community
3 credit(s);
Instructor: Stein, Jerome A
Description: The course will examine the history and philosophy of communities that support learning and inquiry as general processes of social living. Concepts of democracy, community, and learning will be examined drawing on a broad range of perspectives, including Native American and indigenous conceptions, Colonial American ideals, Transcendentalist thought, the tradition of progressivism in American education, and pragmatist and postmodern philosophies. Class discussions will explore education as a way of living that is at the heart of the democratic ideal while also reconsidering what that ideal might be.

CI 8131 Curriculum and Instruction Core: Critical Examination of Curriculum in Context
A-F only, 3 credit(s); prereq CI PhD or MA student or instr consent;
Instructor: Jacobs, Benjamin M
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: O'Brien, David
Description: Survey of educational research methods, comparison of underlying assumptions/procedures.

CI 8150 Research Topics Curr & Instruct
3 credit(s), max credits 12, 12 completions allowed; prereq [M.A. or Ed.D or Ph.D.] student or instr consent;
Instructor: Ngo, Bic
Description: Student may contact the instructor or department for information.

CI 8150 Research Topics Curr & Instruct
3 credit(s), max credits 12, 12 completions allowed; prereq [M.A. or Ed.D or Ph.D.] student or instr consent;
Instructor: King, Jerome A

CI 8412 Research in Reading
3 credit(s), max credits 6; prereq [MA or PhD] student;
Instructor: Peterson, Debra Stevens
Description: Theory of and research on writing process. Applications to developing writing curriculum/instruction.

CI 8412 Research in Reading
3 credit(s), max credits 6; prereq [MA or PhD] student;
Instructor: Taylor, Barbara
Description: Theory of and research on writing process. Applications to developing writing curriculum/instruction.

CI 8461 Sociocultural Theory, Education, and Literacy
3 credit(s);
Instructor: Lewis, Cynthia

CI 8595 Problems: Science Education
1-6 credit(s), max credits 12, 12 completions allowed; prereq CI grad student or instr consent;
Instructor: Johnson, Roger T
Description: Independent research.

CI 8650 Seminar: Special Topics in Second Languages and Cultures Research
3 credit(s), max credits 6, 6 completions allowed; prereq CI grad student or instr consent;
Instructor: Bigelow, Martha
Description: This course will explore critical topics in second language acquisition and education. Many mainstream lines of SLA research will be explored as well as more critical or work being done in the field. Key topics will include the interactionist approach, variationist perspectives, sociocultural theory and discourse. Also considered will be psycholinguistic perspectives and skill learning. Individual differences will focus on issues of identity, heritage language learners and educational level. Discussions of ethical considerations in SLA research will be a thread throughout the course. A basic course in SLA is a prerequisite.

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: Gentzler, Yvonne
Description: Teaching/learning in family/community settings and in formal education settings. Interrelationships, implications.

Dakota 19 Scott Hall

DAKOTA 1122 Beginning Dakota II
5 credit(s); prereq 1121; Credit will not be granted if credit has been received for: DAKO 4122;
Instructor: Bendickson, Wayne Joseph
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Dakota 3124 Intermediate Dakota II
5 credit(s); prereq 1121, 1122, 3123; Credit will not be granted if credit has been received for: DAKO 4124;
 Instructor: Bendickson, Wayne Joseph
Description: Student may contact the instructor or department for information.

Dakota 4122 Beginning Dakota II
3 credit(s); prereq [1121, 1004 in another language] or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DAKO 1122;
 Instructor: Bendickson, Wayne Joseph
Description: Student may contact the instructor or department for information.

Dakota 4124 Intermediate Dakota II
3 credit(s); prereq 1121, 1122, 3123; Credit will not be granted if credit has been received for: DAKO 3124;
 Instructor: Bendickson, Wayne Joseph
Description: Student may contact the instructor or department for information.

Dakota 5129 Advanced Dakota Language II
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
 Instructor: McKay, Neil Troy
Description: Student may contact the instructor or department for information.

Dance
Barbara Barker Center for Dance

DNE 1002 Modern Dance Technique 2
1 credit(s); prereq 1001 or audition or instr consent;
 Instructor: Jenson, Matthew Paul
Description: This course is a continuation of Dance 1001 and the second of a two-sequence introduction course to modern dance technique. In this course, students will gain greater self-awareness of the body, explore with greater depth the rhythms and dynamics underlying movement and explore orientation of the moving body through space. More emphasis will be placed on longer movement phrases and more in-depth improvisations. Emphasis will also be placed on the successful performance of fundamental elements that comprise modern dance technique. Successful completion of previous level, Modern Dance Technique 1, or departmental approval by audition required for registration.
Style: Studio

DNE 1002 Modern Dance Technique 2
1 credit(s); prereq 1001 or audition or instr consent;
 Instructor: Bergeron, Maggie Marie
Description: This course is a continuation of Dance 1001 and the second of a two-sequence introduction course to Modern Dance technique. In this course, students will gain greater self-awareness of the body, explore with greater depth the rhythms and dynamics underlying movement and explore orientation of the moving body in space. More emphasis will be placed on longer movement phrases and more in-depth improvisations. Emphasis will also be placed on the successful performance of fundamental elements that comprise modern dance technique: space, time and energy.
Style: Studio

DNE 1020 Modern Dance Technique 4
2 credit(s), max credits 4; prereq 1010, dept consent, audition;
 Instructor: Thompson, Erin D
Description: This course is the fourth level of eight levels of modern dance technique offered in the Dance Program. Classwork is based on practical application of the principles of space, time and energy with specific emphasis on alignment, power from the pelvic center, rotation and turnout, muscular tonality, joint articulation, clarity of intent, musicality, stretch, and strength. Class consists of in-place warm-ups, specific technical exercises and dance phrases applying the technique addressed.

DNE 1102 Ballet Technique 2
1 credit(s); prereq 1101 or audition or instr consent;
 Instructor: Anderson, Tina Nancy
Description: This course 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

DNE 1120 Ballet Technique 4
2 credit(s), max credits 4; prereq 1110, dept consent, audition;
 Instructor: Anderson, Tina Nancy
Description: This class is the second of a 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

DNE 1202 Jazz Technique 2
1 credit(s); prereq 1201 or audition or instr consent;
 Instructor: STAFF
Description: This is the second of an eight-semester sequence in jazz dance technique/style. Class work will continue to focus on fundamental jazz vocabulary and movement. Clear articulation of movement will continue to be emphasized, as well as the use of space, weight, dynamics, focus and musicality. The continued use of improvisation will be used to help build one's self confidence in dance movement. Successful completion of previous level or departmental approval by audition required for registration.
Style: Studio

DNE 1220 Jazz Technique 4
1 credit(s), max credits 2; prereq 1210, dept consent, audition;
 Instructor: Lee, Linda Talcott
Description: This course is the fourth of an eight-semester sequence of jazz dance technique/style. Class work will concentrate on the basics of jazz dance and its origins. Movement vocabulary will include American vernacular styles based on the fundamentals of African dance and its strong influence. Emphasis will continue with the use of space, clear articulation of movement, dynamics and overall musicality. Successful completion of previous level or departmental approval by audition required for registration.
Style: Studio

DNE 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.

DNE 1313 African Based Movement
1 credit(s);

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
### DNCE 1233 Swing Dance

**1 credit(s);**  
**Instructor:** STAFF  
**Description:** This course will cover the traditional swing dances popular in the United States during the 1930s and through the early 1960s. Each week new movements and figures will be taught and previous dances will be reviewed. To increase the learning process, students will be expected to change partners throughout class.

### DNCE 1331 Yoga

**1 credit(s);**  
**Instructor:** STAFF  
**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 a midterm paper and a movement demonstration final.

### DNCE 1335 T'ai Chi Ch'uan

**1 credit(s);**  
**Instructor:** Abdella, Paul Edward  
**Description:** This course is designed to give students an introduction to T'ai Chi Ch'uan. T'ai Chi Ch'uan is an ancient Chinese slow-motion exercise which provides benefits in the area of health, self-defense, mental development, and meditation. The slow, calm, continuous movements of T'ai Chi help the body and mind to become relaxed and centered by developing natural movement patterns, deep breathing and a tranquil stress-free mind. In addition, each movement has a practical application for self-defense, which is taught in a non-competitive and non-aggressive manner.

### DNCE 1401 Introduction to Dance

**3 credit(s);**  
**Credit will not be granted if credit has been received for:** CHIC 1401; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;  
**Instructor:** STAFF  
**Description:** Modern dance, ballet, and world dance, primarily in the 20th century. Dance forms, choreographers, and dance issues through lecture, discussion, and viewing of live and taped performance.

### DNCE 1500 Topics in Dance

**1-3 credit(s), max credits 10, 10 completions allowed;**  
**Instructor:** STAFF  
**Description:** See instructor descriptions per section.

### DNCE 1500 Topics in Dance: Contemporary Indian Dance

**2 credit(s), max credits 10, 10 completions allowed;**  
**Instructor:** Chatterjee, Ananya  
**Description:** Contact Dr. Ananya Chatterjee for details on this course, ananya@umn.edu.

### DNCE 3020 Modern Dance Technique

**2 credit(s), max credits 4; prereq 3010, dept consent, audition;**  
**Instructor:** Flink, Carl Lindsay  
**Description:** This course is the sixth level of eight levels of modern dance technique offered in the Dance Program. The purpose of the technique class is to allow the intermediate modern dance student to explore and discover him/herself as an articulate and expressive mover. Classwork continues to involve space, time and energy with specific emphasis on alignment, power, momentum, articulation, clarity of intent, musicality, strength, stretch, and stamina. Class consists of in-place warm-ups, technical exercises and dance phrases applying the technique addressed.

### DNCE 3020 Modern Dance Technique 6

**2 credit(s), max credits 4; prereq 3010, dept consent, audition;**  
**Instructor:** Janczewski, Mathew Jay  
**Description:** This course is the sixth level of eight levels of modern dance technique offered in the Dance Program. The purpose of the technique class is to allow the intermediate modern dance student to explore and discover him/herself as an articulate and expressive mover. Classwork continues to involve space, time and energy with specific emphasis on alignment, power, momentum, articulation, clarity of intent, musicality, strength, stretch, and stamina. Class consists of in-place warm-ups, technical exercises and dance phrases applying the technique addressed.
DNCE 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, 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: STAFF
Description: This class provides an overview of Body-Mind Centering, a new approach to movement, mind and body developed over the past thirty years by Bonnie Bainbridge Cohen, O.T. Classwork includes improvisational movement explorations, hands-on re-patterning work and discussion designed to give direct experience of the way mind (desire, attention, and intention) is expressed through the various body systems. These systems are the skeletal, organ, muscle, fluid, nervous, and endocrine. In addition, students will study developmental movement, the baby movements that underlie our more complex adult movement. Imagery, touch, and anatomical information will be used as tools to help students access a range of inner sensations and movement experiences. Emphasis will be on the acknowledgement of each individual's unique experience of the body, as well as on the experiences we share as human beings. This class is experiential and includes movement, touch, lecture and class discussion. Students can expect to spend two to three hours per week in outside reading and keeping a journal. There is one quiz and one take home exam.

DNCE 3402W Dance History 2
3 credit(s); prereq 3401, dance major; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Chatterjea, Ananya
Description: Student may contact the instructor or department for information.

DNCE 3433 Articulate Body
3 credit(s); prereq Dnce major, dept consent;
Instructor: STAFF
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 3495 Dance and Global Tourism
OPT No Aud. 3 credit(s); prereq Jr or sr;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

DNCE 3500 Topics in Dance
1-3 credit(s), max credits 10, 10 completions allowed;
Instructor: STAFF
Description: In this course, participants will learn and research effective ways to improve their nutrition and remain injury-free throughout their dance careers and beyond. Nutrition principles will be discussed in-depth and applied to the unique challenges, needs and interests of dancers. General anatomy of movement will be examined in order to develop constructive ways to prevent and manage injuries. Another course focus will be on stress reduction techniques designed to provide participants with tools to meet the grueling demands of a dance career.

DNCE 3601 Dance Composition 1
3 credit(s); prereq 1020, 1601, concurrent regis in a modern dance technique course, dept consent;
Instructor: Mann, Paula
Description: This course is the second part of a six-semester sequence in Dance Composition. In this course, form and structural techniques will be explored through the creation, presentation and critique of solo studies. In-class work will consist of improvisation, experimentation, revision and analysis of movement in relation to space, time and energy, both as an end in itself and as a means to express ideas, emotions and narrative. Successful completion of Improvisation or departmental approval required for registration.

DNCE 3601 Dance Composition II
A-F only, 2 credit(s); prereq 3621, dance major, dept consent;
Instructor: Rea, Pearl
Description: This course is the continuation of Dnce 3621 - Dance Production 1. Having studied the technical and administrative tools of dance production, students in this course will produce the Student Dance Concert in the late Spring.

DNCE 3622 Dance Production II
A-F only, 2 credit(s); prereq 3621, dance major, dept consent;
Instructor: Agustin, Sandra J
Description: This course is the continuation of Dnce 3621 - Dance Production 1. Having studied the technical and administrative tools of dance production, students in this course will produce the Student Dance Concert in the late Spring.

DNCE 3700 Performance
1 credit(s), max credits 4; prereq Concurrent enrollment in a technique course, audition, dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

DNCE 3901 Survival Strategies in Dance
A-F only, 3 credit(s); prereq Dance major, dept consent;
Instructor: STAFF
Description: In this course students will explore basic strategies fundamental to a dancer's survival. Essential knowledge about injury prevention and care; the development of healthy dietary and muscular/skeletal habits; and information on career tracks in dance are covered.

DNCE 4601 Dance Composition 3
3 credit(s); prereq 3602, concurrent regis in a modern dance technique course, dept consent;
Instructor: Flink, Carl Lindsay
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
DNCE 4601 Dance Composition 3
3 credit(s); prereq 5602, concurrent regis in a modern dance technique course, dept consent;
Instructor: Smith, Joan A
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, audition;
Instructor: Thompson, Erin D
Description: This course is the eighth level of eight levels in modern dance technique. This course will offer a variety of modern dance techniques and styles from various instructors and guest artists. This course is intended for the advanced dance major. Successful completion of previous level or departmental approval by audition required for registration.
Style: studio

DNCE 5120 Ballet Technique 8
1 credit(s), max credits 2; prereq 5110, dept consent, audition;
Instructor: Leon, Barry D
Description: This course is the eighth in an eight-semester sequence of ballet technique. This advanced level ballet class will emphasize and further develop the following skills: clarity of arms and head positions, a strong stance, stability and balance, coordination of the joining of steps, use of feet in jumps, the ability to reverse and remember movement combinations. Successful completion of previous level or departmental approval by audition required for registration.
Style: studio

DNCE 5334 Introduction to Dance/Movement Therapy
2 credit(s); prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

DNCE 5495 Dance and Global Tourism
OPT No Aud, 3 credit(s); prereq Grad student;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

DNCE 5500 Topics in Dance
1-3 credit(s), max credits 10, 10 completions allowed;
Instructor: STAFF
Description: See instructor descriptions per section.

DNCE 5500 Topics in Dance: Modern Dance Technique 10
1 credit(s), max credits 10, 10 completions allowed;
Instructor: Flink, Carl Lindsay
Description: Modern Dance Technique 9 and 10 are pre-professional preparation courses that prepares advanced modern dance students in the unique and demanding rigors and challenges of a full-time professional performance career in modern and contemporary dance through (a) highly demanding and rigorous technique class and (2) conversation and feedback about effective work approaches to achieving the necessary focus and discipline for this extremely competitive and refined career path in the field of dance. Students work directly with faculty members Joanie Smith, Toni Pierce Sands and Carl Flink, each having sustained and nationally recognized professional careers as performers with major United States modern dance companies (Alwin Nikolai/Murray Louis, Alvin Ailey and Jose Limon respectively). Registration for this course is limited to current dance major students who will receive placement during auditions the first week of fall semester classes (in conjunction with Modern 5/7 placement).

DNCE 5601 Dance Composition 5
1 credit(s); prereq 4601, 4602, dept consent;
Instructor: Mann, Paula
Description: This course is the final part of a six-semester sequence in Dance Composition. Class work consists of exploration and investigation of movement through independently scheduled rehearsals. Choreographic concepts will focus on the continued study of tools in the dance creation process, development and refinement of movement, and structure of group choreography and collaborative projects.

DNCE 5993 Directed Studies
1-4 credit(s), max credits 10, 10 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

DNCE 5993 Directed Studies
1-4 credit(s), max credits 10, 10 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Chatterjee, Ananya
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: Listemaa, Jacqueline Dawn
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: Listemaa, Jacqueline Dawn
Description: Student may contact the instructor or department for information.

Dental Hygiene
9-406 Malcolm Moos Health Sciences Tower

DH 2212 Dental Hygienist-Patient Relationship
A-F only, 2 credit(s); prereq DH student;
Instructor: STAFF
Description: This course introduces the use of clinical research and evidence-based clinical decision making when communicating scientifically based clinical therapy and treatment modalities; and promotion of active participation by the patient in clinical decision making.

DH 2215 Oral Histology and Embryology
A-F only, 2 credit(s); prereq DH student;
Instructor: Gopalakrishnan, Rajaram
Description: Student may contact the instructor or department for information.

DH 2221 Periodontology
A-F only, 3 credit(s); prereq DH student;
Instructor: STAFF
Description: This course introduces periodontal diseases; etiology, assessment and treatment options. It includes clinical experience in debridement, root planing with ultrasonic and hand
DH 2211 Periodontology  
A-F only, 3 credit(s); prereq DH student;  
Instructor: Otsone, Joy B  
Description:  

DH 2222 Dental Hygiene Care Process Clinical Application II  
A-F only, 3 credit(s); prereq DH student;  
Instructor: STAFF  
Description: This course introduces the School of Dentistry clinical systems. It covers various medical and emergency conditions affecting patient care and preventative strategies for dental diseases. It covers skill development in fluoride, sealants, and air polishing techniques. Includes evaluation of products used in the treatment of dental caries and periodontal diseases.

DH 2231 Cariology and Applied Nutrition in Dental Hygiene Care  
A-F only, 3 credit(s); prereq DH student;  
Instructor: Danielson, Judy Ann  
Description: Student may contact the instructor or department for information.

DH 3151 Oral and Maxillofacial Radiology  
A-F only, 2 credit(s); prereq DH student;  
Instructor: Ahmad, Mansur  
Description: Student may contact the instructor or department for information.

DH 3227 Oral and Maxillofacial Radiology Clinic II  
A-F only, 0 credit(s); prereq DH student;  
Instructor: STAFF  
Description: This course introduces exposing patient radiographs, interpretation, panoramic and extraoral technique, and quality assurance procedures.

DH 4125W Dental Hygiene Care Process Clinical Application V  
A-F only, 1-6 credit(s), max credits 6; prereq DH student; Meets CLE req of Writing Intensive;  
Instructor: STAFF  
Description: This course covers the advanced dental hygiene care process. You will learn to analyze patient preventive/treatment needs through case-based teaching. There is emphasis on cultural diversity, family violence issues, and using technology in patient care.

DH 4130 Management and Supervision of a Dental Practice  
A-F only, 2 credit(s); prereq Current Dental Hygiene Program student;  
Instructor: STAFF  
Description: This course is a lecture series designed to establish skills in planning, organizing, leading, and controlling the clinical, business, and human aspects of a dental practice.

DH 4135W Research Methods in Dental Hygiene  
A-F only, 3 credit(s); prereq DH student; Meets CLE req of Writing Intensive;  
Instructor: STAFF  
Description: In this course you will develop skills in the scientific method and analyzing research findings. There is emphasis on types of research, problem selection, hypothesis writing, research planning and design, data collection and measuring techniques, analysis and interpretation of data, and writing the research proposal.

DH 4136 Periodontology III Lecture  
A-F only, 1 credit(s); prereq DH student;  
Instructor: Bakdash, Bashar  
Description: Student may contact the instructor or department for information.

DH 4139 Dental Public Health and Academic Service Learning II  
A-F only, 2 credit(s); prereq DH student;  
Instructor: Basile, Sarah Mae  
Description: Student may contact the instructor or department for information.

DH 4211 Principles of Restorative Techniques II  
S-N only, 3 credit(s);  
Instructor: Dittmar, Susan Kyle  
Description: Student may contact the instructor or department for information.

DH 4226 Dental Hygiene Care Process Clinical Application VI  
A-F only, 6 credit(s); prereq DH student;  
Instructor: Ahmann, Lisa Webb  
Description: Student may contact the instructor or department for information.

DH 4233 Legislative, Social, Economic, and Practice Factors in Oral Health  
A-F only, 2 credit(s); prereq DH student;  
Instructor: Dittmar, Susan Kyle  
Description: Student may contact the instructor or department for information.

DH 4302 Dental Hygiene Care: Special Needs Patients  
A-F only, 2 credit(s); prereq DH student;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

DH 4303 Information Literacy  
S-N only, 3 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

DH 5409 Dental Hygiene Clinic Administration  
A-F only, 2 credit(s); prereq Dental hygiene grad student;  
Instructor: Ahmann, Lisa Webb  
Description: Student may contact the instructor or department for information.

DH 5413 Dental Hygiene Supervised Clinic Student Teaching  
A-F only, 3 credit(s); prereq Dental hygiene grad student;  
Instructor: Stoltenberg, Jill L  
Description: Student may contact the instructor or department for information.

DH 5415 Dental Hygiene Supervised Didactic Course Student Teaching  
A-F only, 1-3 credit(s), max credits 6; prereq Dental hygiene grad student;  
Instructor: Newell, Kathleen Jane  
Description: Student may contact the instructor or department for information.

Dental Therapy  

DT 3230 Oral and Maxillofacial Radiology  
A-F only, 2 credit(s); prereq Accepted into dental therapy program;  
Instructor: Ahmad, Mansur  
Description: Student may contact the instructor or department for information.

DT 3250 Oral Histology and Embryology  
A-F only, 2 credit(s); prereq Enrolled in dental therapy program;  
Instructor: Gopalakrishnan, Rajaram  
Description: Student may contact the instructor or department for information.

DT 3331 Provider Patient Relationships  
A-F only, 2 credit(s); prereq Enrolled in dental therapy program;  
Instructor: Basile, Sarah Mae  
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Type</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 5351</td>
<td>Introduction to Dental Biomaterials</td>
<td>A-F only, 0.7</td>
<td></td>
<td></td>
<td>Combe, Edward Charles</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5402</td>
<td>Prevention and Oral Health Promotion</td>
<td>A-F only, 1</td>
<td></td>
<td></td>
<td></td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5412</td>
<td>Professional Problem Solving</td>
<td>A-F only, 1.2</td>
<td></td>
<td></td>
<td>Born, David Omar</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5520</td>
<td>Oral and Maxillofacial Radiography</td>
<td>A-F only, 2</td>
<td></td>
<td>Enrolled in dental therapy program</td>
<td>Schultz DDS, Paul D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5525</td>
<td>Oral Histology and Embryology</td>
<td>A-F only, 2</td>
<td></td>
<td>DT grad program</td>
<td></td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5613</td>
<td>Oral Medicine/Diagnosis Clinic III</td>
<td>A-F only, 1</td>
<td></td>
<td></td>
<td>Rhodus, Nelson L</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5621</td>
<td>Senior Outreach Experience</td>
<td>S-N only, 2</td>
<td></td>
<td>Enrolled in dental therapy program</td>
<td></td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5631</td>
<td>Provider Patient Relationships</td>
<td>A-F only, 2</td>
<td></td>
<td></td>
<td></td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5632</td>
<td>Cariology and Applied Nutrition in Dental Therapy Care</td>
<td>A-F only, 0</td>
<td></td>
<td></td>
<td></td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5641</td>
<td>Professional Problem Solving</td>
<td>S-N only, 0</td>
<td></td>
<td></td>
<td></td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5645</td>
<td>Professional Problem Solving</td>
<td>S-N only, 1</td>
<td></td>
<td></td>
<td></td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>DENT 5643</td>
<td>Treatment Planning Clinic II</td>
<td>A-F only, 1</td>
<td></td>
<td>Patient Management II Resource</td>
<td></td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>
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 6465 Emergency Clinic
S-N only, 2 credit(s);
Instructor: Miller, Robert Rodange
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
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 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 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 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 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.

DENT 6840 Introduction to CAD/CAM CEREC Restorations
S-N only, 2 credit(s);
Instructor: Zidan, Omar
Description: Student may contact the instructor or department for information.

DENT 6915 Fixed Prosthodontics Clinic IV
A-F only, 5 credit(s); prereq 4815;  
Instructor: Cook, Gary Eugene
Description: Student may contact the instructor or department for information.

DENT 6924 Removable Prosthodontics Clinic IV
A-F only, 3 credit(s); prereq 4962, 4963, 4965;  
Instructor: Cook, Gary Eugene
Description: Student may contact the instructor or department for information.

DENT 7021 Contemporary Diagnosis and Management of Orofacial Pain
A-F only, 1 credit(s);
Instructor: Bowles, Walter Ray
Description: Student may contact the instructor or department for information.

DENT 7032 Field Experience: Administration in a Multidisciplinary Health Center
1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Shuman, Stephen K
Description: Student may contact the instructor or department for information.

DENT 7033 Teaching and Evaluation in Dentistry
A-F only, 3 credit(s); prereq Dent or OBio grad student or instr consent;  
Instructor: Born, David Omar
Description: Student may contact the instructor or department for information.

DENT 7052 Oral and Maxilofacial Radiologic Interpretation
A-F only, 2 credit(s);  
Instructor: Ahmad, Mansur
Description: Student may contact the instructor or department for information.

DENT 7062 Special Oral Pathology II
A-F only, 2 credit(s); prereq 7061, resident [or grad student] in discipline other than oral pathology;  
Instructor: Koutlas, Ioannis George
Description: Student may contact the instructor or department for information.

DENT 7101 Management Philosophy for Dental Practices
S-N only, 1 credit(s); prereq Dentistry grad student;  
Instructor: Hinrichs DDS, MS, James Edward
Description: Student may contact the instructor or department for information.

DENT 7121 Psychological Issues in Medical and Dental Patient Management
1 credit(s);  
Instructor: Hathaway, Kate M
Description: Student may contact the instructor or department for information.

DENT 7991 Independent Study
OPT No Aud, 1-4 credit(s), max credits 8; prereq Enrolled in an advanced dental education program;  
Instructor: Shuman, Stephen K
Description: Student may contact the instructor or department for information.

DENT 8031 Topics and Problems in Dental Education
1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Born, David Omar
Description: Student may contact the instructor or department for information.

DENT 8120 Advanced Principles and Techniques of TMJ and Orofacial Pain Disorders
A-F only, 3 credit(s); prereq Participation in TMJ and
orofacial pain advanced education program;  
Instructor: Fricton, James Ryan  
Description: Student may contact the instructor or department for information.

**DENT 8121 Current Literature in TMJ and Craniofacial Pain**  
A-F only, 1 credit(s);  
Instructor: Mulet Pradera DDS, MS, Mariona  
Description: This course provides the student with information necessary to critically review TMD and orofacial pain literature. It is also designed to broaden knowledge of research conducted on TMD and pain management. Understanding of research methodology is emphasized. Students are assigned journal articles and critically review them.  
Style: 40% Lecture, 60% Discussion.  
Grading: 50% in-class presentation, 50% class participation.

**DENT 8123 Advanced Topics in Orofacial Pain**  
A-F only, 3 credit(s);  
prereq Grad student in dentistry or other health sciences grad student or instr consent;  
Instructor: Hathaway, Kate M  
Description: Student may contact the instructor or department for information.

---

**Design**

**DES 1910W Freshman Seminar: Storytelling**  
A-F only, 2-3 credit(s), max credits 6; prereq Fr; Meets CLE req of Writing Intensive;  
Instructor: Hokanson, Brad  
Description: How we convey information and convince others often occurs through the use of stories; we use narrative to structure our understanding of the world or of our context; and we use myth as a means to provide order even in the most technological context. Examining the use of stories will provide tools and skills valuable in the world of the future; valuable for any university student. Skill with narrative, as taught in the Harvard Business School, can be a valuable tool and a worthwhile skill. Stories will be developed in written, oral, and visual form. The end products of the class will include oral presentations, written stories, and graphic novels or comic books. Class will have a number of components, all focused on the development of skills tied together by storytelling. We will have a final performance/presentation for the term of work from the semester.

**DES 1910W Freshman Seminar: Heritage Landscapes: Plang+Design for Special Plcs**  
A-F only, 2-3 credit(s), max credits 6; prereq Fr; Meets CLE req of Writing Intensive;  
Instructor: Nunnally, Patrick  
Description: Planning and Design for the World's Most Special Places. Students will build basic college-level skills in research, analysis, writing, and presentation of their ideas, while learning the particular sets of skills and issues that are part of education in landscape architecture. Students in this class will gain basic familiarity with the kinds of issues the Center for World Heritage Studies addresses.  
Grading: 15% reports/papers, 15% quizzes, 70% written homework.

**DES 3201 Strategic Career Planning for Design**  
A-F only, 1 credit(s); prereq soph, jr, sr, [Graphic design or interior design or clothing design or environmental design or architecture] major;  
Instructor: Reile, Lucy  
Description: This course is meant to teach you the skills necessary to land a great job or internship in the field of design! By the end of this class, you will feel more confident about the steps necessary to obtain a good position. Through in-class activities and homework assignments, you will learn how to create a strong resume, how to market your skills to employers and how to find job openings for your field. The skills you learn in this class will help you throughout your future career!

**DES 3311 Travels in Typography**  
A-F only, 3 credit(s);  
Instructor: Moran, Bill  
Description: Travels in Typography: A hands-on survey. From Gutenberg to Gill, from papyrus to paper, immerse yourself in the tactile qualities of the printed word. This class will map the development of writing and its offspring, movable type, using the exceptional resources of the internationally-renowned James Ford Bell Library at the University of Minnesota. Throughout the semester students will use the Bell Library's rare book and map collection to undertake hands-on design exercises that take them on a historical and practical tour of all the major developments in typography, including stonecutting, calligraphy and letterpress printing.

**DES 3331 Street Life Urban Design Seminar**  
A-F only, 3 credit(s);  
Instructor: Schulte, Marcy Lynn  
Description: In this seminar, we will focus on the street, not just defined as the gap between buildings or between destinations but as a place in itself. With street and streetlife as the subject of our inquiry, we will consider case studies and envision possible transformations through discourse, dissection and analysis. In this course, students will examine and make projects that reconfigure city spaces based on their assessment of how our daily lives intersect with the street. Our investigations will be guided by readings in urban studies, geography, design, economics and art history. Guest lecturers may include landscape architects, urban designers, public artists and engineers.

**DES 3341 (un)Wrapping It Up: New Materials for Design, Design for New Materials**  
A-F only, 3 credit(s);  
Instructor: Wright, Bruce N  
Description: Are you interested in Architecture and product design? Do you feel restricted by wood, stone and plastic? Learn how new materials influence your work! In this seminar, we will explore the nature of new high-tech materials that have been revolutionizing many design arenas, from architecture to clothing, from products to landscapes and in between. A highly popular recent Cooper-Hewitt National Design Museum exhibition, "Extreme Textiles: Designing for High Performance," brought international attention to this exciting field of material development, as examples of specialty textiles carried scientific instruments to the surface of Mars, helped bring first responders safely back from volatile environments, and one billion people watched soccer teams compete for the World Cup in fabric-clad stadiums. In this course, students will learn about new materials - such as high-tech fabrics, foils, electrotexiles, and so-called "intelligent textiles" that respond to environmental stimuli - through hands-on materials research and testing of prototypes. Cross-disciplinary student teams will explore "appropriate use" modeling and applications, testing their design ideas through several quick one-week projects, leading to a larger, more integrated project at term's end. Seminar instructor: Bruce Wright, Editor, Fabric Architecture magazine.

**DES 4301 Design Minor Seminar**  
A-F only, 3 credit(s); prereq Design minor;  
Instructor: Hemmis, Patricia  
Description: In this course, we will examine the powerful role of metaphors and related tropes when conceptualizing meanings within the designed environment. We will explore Lakoff and Johnson's notion that "our ordinary conceptual system is metaphorical in nature, and that as a result, metaphors affect the ways we perceive, think and act." We will use these ideas to raise questions about the role of tropes in the designed environment. Through discussion and assignments, students will analyze fundamental metaphorical conceptualizations in addition to identifying and analyzing newly emerging metaphors. We will examine the current role of metaphor in the design process and explore the possibility of an expanded usefulness.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
DES 8151 Product Development  
A-F only, 3 credit(s);  
Instructor: LaBat,Karen Louise  
Description: Student may contact the instructor or department for information.

DHA 1101W Introduction to Design Thinking  
A-F only, 4 credit(s); Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;  
Instructor: Hemmis,Patricia  
Description: DHA 1101W-Introduction to Design Thinking is an introduction to the theories and processes that underpin design thinking and practice. In this writing-intensive course, students will investigate the interactions between humans and their natural, social, and designed environments where purposeful design helps determine the quality of those interactions. Students will be introduced to many facets of the design profession and will gain an interdisciplinary perspective about design and human behavior. This course offers students the opportunity to raise their awareness about the value, power, practice, and responsibility of design in our culture. Audience: 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. Rationale: 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. Texts: A required packet of readings and supplemental notes will be available from Books Underground, the bookstore in the St. Paul Student Center. A limited number of packets are also available from the Coffman Union Bookstore.  
Style: 50% Lecture, 10% Film/Video, 25% Small Group Activities, 15% Guest Speakers. Students complete and present to hands-on group projects on design topics. Students work on projects in class, although outside time is also necessary.  
Grading: 30% reports/papers, 30% special projects, 35% quizzes, 5% reflection paper.  
Exam Format: Exams are composed of short answer, essay, and fill in the blank. Exams require students to identify and apply course concepts

DHA 1201W Clothing Design, Merchandising, and the Consumer  
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;  
Instructor: Mun,Jung Mee  
Description: Student may contact the instructor or department for information.

DHA 1311 Foundations: Drawing and Design in Two and Three Dimensions  
A-F only, 4 credit(s); prerequisite DHA major or pre-major;  
Instructor: STAFF  
Description: In this course the formal, perceptual, symbolic and technical aspects of visual communication will be introduced--with the emphasis on drawing. Design elements and principles will be applied within the context of observational drawing, as well as two- and three-dimensional design. Design process and creative problem solving will be stressed. We will work in a variety of mediums -- charcoal, conte, white chalk, but the emphasis will be on gaining expertise with the pencil. Subject matter will range from the figure to two-dimensional abstraction projects. You will gain expertise in drawing technique, as well as in composition, visual unity and balance and in visual analysis of drawings.  
Style: 20% Lecture, 20% Discussion. 60% studio work  
Grading: 10% class participation, 90% other evaluation. visual assignments  
Exam Format: Final presentation

DHA 1312 Foundations: Color and Design in Two and Three Dimensions  
A-F only, 4 credit(s); prerequisite DHA major or pre-major;  
Instructor: STAFF  
Description: "This design foundations course introduces students to color theory and its application in two and three dimensional design through lectures, demonstrations, extensive studio work and critiques. Emphasis is on developing students' ability to use color effectively in two and three dimensional design applications by studying traditional design elements, gestalt grouping principles, theories of color organization, color and spatial perception, and color interaction." But it is so much more. Intended for (pre) majors in graphic design, clothing design, interior design, and housing; this class has a well-earned reputation as 'the toughest class you'll ever love.' Class time is spent with slide and lecture presentations, studio work, and group and individual critiques. Successful completion requires a significant commitment to time, energy, and resources (supplies run approximately $200.) The result? You will produce a portfolio that is a descriptive explanation and illustration of color and design theory, enhanced with your own creative projects: a physical product of impressive proportions. You will be proud of your work. Most importantly, you will see the world in a whole new light. You'll see color where you didn't see it before and recognize the 'color magic' around you.  
Style: 20% Lecture, critique; 60% studio work  
Grading: 20% reports/papers, 80% other evaluation. studio designs and exercises

DHA 1315 Foundations: The Graphic Studio  
A-F only, 4 credit(s); prerequisite DHA major or pre-major or instr consent;  
Instructor: STAFF  
Description: This class will provide an overview of the design communication process including creative procedure, terminology, and technology, and will introduce the use of current computer applications. Students will gain skills in digital illustration and page layouts, and image-scanning and manipulation. Graphic design elements of typography, production, color separation, printing process, and photography will also be addressed.  
Style: 50% Lecture, 10% Discussion, 40% Laboratory.  
Grading: 25% class participation, 50% problem solving, 25% other evaluation. in-class exercises

DHA 2101 Design and Visual Presentation  
A-F only, 3 credit(s); prerequisite Non-design major;  
Instructor: Printy,John A  
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA  
S-N only, 1-4 credit(s), max credits 8; prerequisite 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; prerequisite 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.

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: Gahring, Sherri 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: Yust, Becky L
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Angell, William J
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Martinson, Barbara Elizabeth
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Bye, Elizabeth Kersch
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Chu, Sauman
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Boyd-Brent, James W
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Hadjiyanni, Tasoulla
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Martin, Caren Samter
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Johnson, Kim KP
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Wollinger, Stephanie Watson
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Bruin, Marilyn J
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s), max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Wu, Jujuanjuan
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: Jasper, Daniel
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: Kim, Hye-Young
Description: Student may contact the instructor or department for information.

DHA 2196 Work Experience in DHA
S-N only, 1-4 credit(s); max credits 8; prereq Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent;
Instructor: Dunne, Lucy Elizabeth
Description: Student may contact the instructor or department for information.

DHA 2214 Softlines Analysis
A-F only, 3 credit(s); prereq 1201, 2213;
Instructor: Gahring, Sherri Ann
Description: Student may contact the instructor or department for information.

DHA 2215 Multichannel Retailing
A-F only, 3 credit(s); prereq 1201 credit will not be granted if credit already received for: DHA 3245;
Instructor: Marshall, Kerianne Maura
Description: Student may contact the instructor or department for information.

DHA 2221 Clothing Design Studio I
A-F only, 4 credit(s); prereq 1201, 1221, clothing design premajor;
Instructor: STAFF
Description: Introduction to theories and methods used to solve problems in designing clothing for a variety of user groups. Developing an understanding of the relationship of the 2-dimensional pattern shape to the 3-dimensional body. Introduction to basic flat pattern, draping and fitting principles. The objectives of the course are: To understand the basic relationship of the 2-dimensional plane to the 3-dimensional body in developing patternshapess; To understand and utilize flat pattern manipulation to vary pattern style while maintaining size in the design of clothing. To examine, evaluate, and utilize pattern development techniques as appropriate for selected clothing designs; To learn the basic process of apparel design ideation through the use of a variety of illustration techniques; To learn and implement the basic process of apparel pre-production form design concept through finished sample. This class is designed for pre-clothing design majors who have completed the necessary prerequisites: DHA 1201, 1311, 1221, 1312. The class is designed for studio learning opportunities with supporting lecture and demonstrations. Project work requires an average of 15 hours outside of class.
Style: 25% Lecture, 30% critique
Grading: 10% Lecture, studio; 30% critique
A-F only, 2211 with a grade of at least C-.
DHA major, pass portfolio review;
Instructor: Fraher, Robert Michael
Description: Student may contact the instructor or department for information.

DHA 2311 Drawing and Illustration
A-F only, 3 credit(s); prereq 1311, 1312, [DHA major or premajor];
Instructor: Owens, John Lee
Description: Student may contact the instructor or department for information.

DHA 2334 Computer Applications I: Digital Composition for Design
A-F only, 3 credit(s); prereq DHA major or pre-major, 1311, 1312, 1315;
Instructor: Chu, Sauman
Description: This is an advanced computer design class that focuses on the integration of design knowledge with Macintosh computer applications. Students obtain experience using software to design illustrations and page layouts with the support of their understanding on design principles and strategies. Three programs are focused on: Adobe Illustrator, Adobe Photoshop, and InDesign. Experiences on using these software are required. Additionally, Adobe Flash will also be taught. Emphasis of this class is placed on producing sophisticated and professional design work as well as broadening students' experience on applying software. A co-operative learning environment is encouraged.
Style: 25% Lecture, 25% Discussion. Studio time
Grading: 5% journal, 5% in-class presentation, 10% class participation, 80% other evaluation. Design projects

DHA 2334 Computer Applications II: Digital Composition for Design
A-F only, 3 credit(s); prereq DHA major or pre-major, 1311, 1312, 1315;
Instructor: Kokil, Uttam
Description: Student may contact the instructor or department for information.

DHA 2345 Typographic Design
A-F only, 3 credit(s); prereq DHA major, pass portfolio review;
Instructor: STAFF
Description: Typographic Design is an introduction to the art of visual communication: the visual realization of a most basic element of communication--the word. The history of typographic forms, principles of composition, and the expressive potential of type will be explored through reading, research, exercises, and design production. Sequential studies will follow the design process: problem-solving through exploration, experimentation, selection, critique, and refinement. Effectiveness of typographic design will be evaluated in terms of legibility, readability, and expression: the direct correlation to gestalt design principles will be evident. Assignments include textbook readings, research from additional sources, analysis and critique of found design, and, primarily, studio design production. Studio assignments will involve both handwork, to train the eye and hand; and digital typographic design and illustration using QuarkXpress and Illustrator. Class sessions will be held in both classrooms and Macintosh studios. This class is for Graphic Design majors who have passed portfolio review only.
Style: 10% Lecture, studio; 30% critique
Grading: 100% other evaluation. Studio design projects including process participation

DHA 2351 Graphic Design I: Text and Image
A-F only, 3 credit(s); prereq 2345, DHA major, pass portfolio review;
Instructor: Barnes, Jessica S
Description: Student may contact the instructor or department for information.

DHA 2360 Design and Factors of Human Perception
A-F only, 4 credit(s); prereq DHA major, pass portfolio review; Meets CLE req of Writing Intensive;
Instructor: Fraher, Robert Michael
Description: Student may contact the instructor or department for information.

DHA 2402 Residential Technology
A-F only, 3 credit(s);
Instructor: Enz, Pamela Richie
Description: Student may contact the instructor or department for information.

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: This course focuses on exploring how a building}

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
and its systems are put together relative to interior design. Conceptually and programmatically, students get an opportunity to holistically implement their understanding of building systems in the design of the interior space.

**Style:** 10% Lecture, 5% Discussion, 10% Small Group Activities, 5% Student Presentation, 5% Field Trips, 65% Studio.

**Grading:** 20% reports/papers, 58% special projects, 12% additional semester exams, 10% in-class presentation.

DHA 2613 Lighting Design and Life Safety Issues

**A-F only, 4 credit(s); prereq [DHA major, pass portfolio review] or instr consent:**

**Instructor:** Martin, Caren Samter

**Description:** This course will focus on two important aspects of the interior environment: lighting design and life safety issues. At the beginning of the semester, we will focus on life safety issues, including the role played by the building code and the energy code and the importance they have to the overall design of space. Students will gain knowledge about how to access and apply this information, and how to integrate these resources appropriately. The larger portion of the semester will focus on lighting design, beginning with developing an understanding of the contribution lighting makes to the interior environment in terms of aesthetics, function, energy consumption, and environmental impact. Students will become comfortable with the technical aspects of lighting as well as the psychological impact lighting has on people. Students will also engage in the design of a light fixture that addresses these issues. Refining communication skills via presenting verbally and in written formats will be stressed throughout the semester. Class time will be focused primarily upon presentation of material through lecture with discussion, exploration of information gathered and synthesized outside of class, critique of student work, interaction with experts in the lighting field and research. Assignments, the lighting journal, and readings are outlined in the following course schedule. The students will also be required to engage with design professionals through professional networking activities outside of class time as enrichment.

**Style:** 40% Lecture, 20% Discussion, 10% Student Presentation, 20% Demonstration, 10% Guest Speakers. Percentages are approximate and vary based on needs of students.

**Grading:** Proportionally based on evaluation of assignments, examination, quiz, professional networking, and class participation.

DHA 3170 Special Topics in Design, Housing, and Apparel

**A-F only, 3 credit(s); max credits 32, 8 completions allowed; Instructor:** Paron-Wildes, Anita Jean

**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:** Conlin Peterson, Mary Elizabeth

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

DHA 3224 Clothing Design Studio IV

**A-F only, 4 credit(s); prereq [2213, 3223] with grade of at least C-, DHA major; Instructor:** Dunne, Lucy Elizabeth

**Description:** This course uses an engineering-type design process to analyze and meet the functional needs of specific user groups. We design clothing that protects users from impact, from thermal and weather conditions, and to facilitate and/or expand body function and movement. A theoretical understanding of human anatomy and anthropometrics is applied in facilitating design for a variety of body types, work environments, and activities. Class projects are often conducted with an industry partner, and project work introduces advanced patterning techniques for function and mobility. Text is "Clothing: The Portable Environment", by Watkins. Prerequisite is Clothing Design Studio III.

**Style:** 40% Lecture, 60% Studio.

**Grading:** 70% special projects, 5% class participation, 25% other evaluation.

DHA 3225 Clothing Design Research

**A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 3224; Instructor:** Bye, Elizabeth Kersch

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

DHA 3243 Visual Merchandising

**A-F only, 3 credit(s); prereq 1101, 1201, [DHA major or minor or dept consent]; Instructor:** Wu, Jujuan

**Description:** Students will use Mockshop, a virtual 3D store modeling software package, to conceptualize and design store interior, layout, fixtures, lighting, signs, merchandising planograms based on an understanding of visual merchandising concepts, theories, planning, strategies, techniques, store image, and target market. Upon completion of this course, students should be able to: -- Understand visual merchandising concepts, theories, processes, and techniques in various retail environments. -- Create successful window displays for various businesses with an understanding of the store/business image and target market. -- Fluently integrate visual merchandising thinking and practice with a 3D software application and effectively communicate across disciplines using both verbal and computerized 3D visual vocabulary. -- Develop virtual retail stores that project store image, merchandise, target market, and promotional theme, using relevant software applications.

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:** Description: This course will explore use of color, pattern, and visual imagery in surface design with a variety of methods; relief printing, screen-printing on paper and alternative surfaces, fabric dyeing and printing.

**Style:** 5% Lecture, 10% Discussion, 10% Small Group Activities, 5% Student Presentation, 5% Demonstration, 5% Field Trips, 60% Studio.

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

DHA 3313 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:** 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 and in- and out of class work.

**Grading:** 5% mid exam, 10% class participation, 85% other evaluation. visual assignments and in-class work.

DHA 3352 Graphic Design II: Identity and Symbols

**A-F only, 3 credit(s); prereq 2351, DHA major; Instructor:** Chu, Sauman

**Description:** This course will build on previously learned graphic design principles including continued investigation of typography and its application. Students will explore the representation of abstract ideas in the form of symbols for the purpose of building identity. The class will focus on the development of visual identity through a systems approach to design with application to various printed collateral. This course will prepare students to design a symbol, a logotype, stationary system, and collateral products, keeping the identity consistent and intact throughout the process. Students will apply gestalt design principles, figure-ground relationships, and contrast within the structure of the grid to aid organization from piece to piece and within the whole.

**Style:** 20% Lecture, 30% Discussion, 10% Student Presentation, 40% Studio.
DHA 3352 Graphic Design II: Identity and Symbols
A-F only, 3 credit(s); prereq 2351, DHA major;
Instructor: Tank, Angela Marie
Description: Student may contact the instructor or department for information.

DHA 3353 Graphic Design III: Packaging and Display
A-F only, 3 credit(s); prereq 3352 or concurrent registration is required (or allowed) in 3352, DHA major;
Instructor: McCarthy, Steven J
Description: This section of Packaging Design will focus on interdisciplinary projects. Graphic Design students will collaborate with students in the New Product Design and Business Development program (a collaborative venture between the Carlson School of Management, the Department of Mechanical Engineering, the Department of Biomedical Engineering and sponsoring companies), and within DHA by working with Apparel Design and Retail Merchandising students. The goal is to challenge the students to work and learn together by designing actual packaging designs applied to real products and retail environments.
Style: 10% Lecture, 10% Discussion, 75% Laboratory, critique
Grading: 15% final exam, 30% reports/papers, 5% in-class presentation, 40% laboratory evaluation, 10% problem solving.
Exam Format: critique, analysis, documentation, outside assessment

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: Pickman, Gregory Hunter
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: Seavey, Robert Thomas
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, Caren Samter
Description: Interior Design Studio VI will expand upon the knowledge base achieved in previous studios and lecture courses. The primary focus of the class will be working towards a full-scale office planning and design project. Three projects will be completed; each with a unique client, site, and increasing level of size and complexity. Projects will allow students to experience the design process, with an emphasis on programming and planning, as well as an understanding of open office systems furnishings, creation of a sense of place through development of the concept, and application of wayfinding knowledge. Assignments will focus on human factors, safety and security, meaning of place through concept development and architectural detailing, and an opportunity to build skills through teamwork. In addition, the scope of each project will be increased to allow learning to advance sequentially, moving towards the production of a full set of construction documents. The processes that designers employ define the environments in which people work?whether in a permanent office or a temporary or transitional office, or in a home office. Interior designers shape how work is accomplished, and contribute to human fulfillment that is derived from work. Defining the workplace is a complex endeavor. Both the individuals performing the work, and the work itself is constantly changing. Also, political, economic, and environmental aspects impact the workplace, workplace culture, and in fact the business?'s very existence. Therefore, the interior designer is a central player in the creation of work, workplace satisfaction, productivity, and performance. The workplace environment must holistically address the needs of the business, the integral work teams, and the individuals themselves. Class time will be focused primarily upon studio work, discussions, critique of student work (by students, the instructor, outside design critics, and code officials), interaction with clients, field trips, and research. Students will also be required to engage with design professionals through professional networking activities outside of class time as an enrichment exercise.
Style: 10% Lecture, 20% Discussion, 15% Student Presentation, 5% Field Trips, 50% Studio. The principal focus of class is studio; all other class time activities support studio efforts.
Grading: Principally, evaluation of studio projects comprise the majority of the grade, supported by outcomes of written reports and/or digital presentations. Professional networking and in-class participation are also part of the student's evaluation.

DHA 3606H 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: Yust, Becky L
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: Angell, William 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: Martinson, Barbara Elizabeth
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: Walron, Carol C
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: Chu, Sauman
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: Boyd-Brent, James W
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: 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: 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: Johnson PhD, Kim KP
Description: Student may contact the instructor or department for information.

DHA 4166 History of Interiors and Furnishings: 1750 to Present
A-F only, 4 credit(s); prereq 4161 or instr consent; Meets CLE req of International Perspect Theme;
Instructor: Hadjiyanni, Tasoulla
Description: This course explores the evolution in the design and meaning of furniture and domestic interiors in Europe and America between 1750 and the present day. Fundamental to the course’s approach is the uncovering of the artistic, historical, social, environmental, economic, political, cultural, religious, and technological forces behind these designs. Armied with an understanding of the world's interconnectedness and the multiplicity of factors that impact the development of furniture and interiors, students are challenged to consider how they can be responsible designers and create designs that respond to current forces and social concerns.
Style: 80% Lecture. presentations
Grading: 60% mid exam, 15% final exam, 10% reports/papers, 15% special projects.
Exam Format: identification of images

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Instructor</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Angell, William J</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Bye, Elizabeth Kersh</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Waldron, Carol C</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Boyd-Brent, James W</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Hadjiyanni, Tasoulla</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Martin, Caren Samter</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Guerin, Denise A</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Johnson PhD, Kim KP</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>DeLong, Marilyn R</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>McCarthey, Steven J</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Crump, Jeffrey R</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Bruin, Marilyn J</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>McCarthy, Steven J</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-4 credit(s), max credits 4; instr consent;</td>
<td>Zollinger, Stephanie Watson</td>
<td>Undergrad, instr consent;</td>
</tr>
<tr>
<td>DHA 4212W</td>
<td>Dress, Society, and Culture</td>
<td>A-F only, 3 credit(s); prereq [[1101, jr] or grad student], [DHA major or minor or dept consent ]; Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;</td>
<td>Johnson PhD, Kim KP</td>
<td>Cultural Diversity Theme; Writing Intensive;</td>
</tr>
</tbody>
</table>
and designers are very interested in what motivates consumers to modify their bodies and subsequently purchase or acquire items to "dress" the body. This course examines contemporary dress from cultures outside and within the United States. Dress is analyzed as a communication system that indicates individuality as well as position within specific social systems of kinship, economy, religion, and politics. Technology of a particular society and types of dress are analyzed and understood as they relate to patterns of behavior such as beliefs about morality, hygiene, ritual, and beauty.

Style: 50% lecture, 30% film/video, 20% discussion.
Grading: 100% reports/papers.

DHA 4215 Product Development: Softlines
A-F only, 4 credits(s); prerequisite 2213 or clothing design major or retail merchandising major or instructor consent; will not be granted if credit received for: 5215; 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 idea 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
Style: 10% Lecture, 5% Discussion, 5% Laboratory, 45% Small Group Activities, 5% Student Presentation, 5% Demonstration, 5% Field Trips, 15% Studio, 5% Guest Speakers.

DHA 4217 International Developments in Textiles and Apparel
A-F only, 3 credits(s); prerequisite [1201, ApEc 1102, [jr or sr or grad student], [DHA major or minor or dept consent]; Meets CLE req of International Perspect Theme; Instructor: Kim, Hye-Young
Description: This course is designed to provide exposure to a number of selected topics in the context of globalization. Students will also have the opportunity to extend their thinking regarding globalization to retail business. The basic content of this course will include: (a) an overview of the means of operating a retail business in foreign countries, with an emphasis on what makes international markets different from the U.S. market; (b) the effects of the socio-cultural systems within foreign countries on the conduct of retailing; (c) the major theories explaining international trade; (d) the dynamic interface between countries and firms attempting to conduct retailing on an international scale; and (e) strategic alternatives for global retail operations.
Style: 60% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 5% Student Presentation, 5% Web Based.
Grading: 20% mid exam, 20% final exam, 15% special projects, 15% quizzes, 20% written homework, 10% class participation.
Exam Format: multiple choice

DHA 4226 Clothing Design Studio VI
A-F only, 4 credits(s); prerequisite 4225 with grade of at least C-, DHA major; Instructor: Sowers, Chad Michael
Description: Student may contact the instructor or department for information.

DHA 4247 Advanced Buying and Sourcing
A-F only, 3 credits(s); prerequisite 3242, [DHA major or minor or dept consent]; Instructor: Kim, Hye-Young
Description: Student may contact the instructor or department for information.

DHA 4330 Surface Fabric Design Workshop
A-F only, 4 credits(s), max credits 8; Instructor: Martinson, Barbara Elizabeth
Description: Student may contact the instructor or department for information.

DHA 4334 Computer Applications II: Design for the Digital Environment
A-F only, 3 credits(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 4345 Advanced Typographic Design
A-F only, 4 credits(s); prerequisite [2351, DHA major] or DHA grad student or instr consent; Instructor: Waldron, Carol C
Description: Advanced Typographic Design is the continued -- and deeper -- exploration of the expressive visual communication through letterforms and words. Both the fundamental legibility of the invisible art and overt expression through type will be addressed. Students will apply fundamentals of design and typography to simple and complex communication objectives, exploring the expressive potential of varied typographic treatments through contrast, manipulation, arrangement, and juxtaposition. There will be a brief foray into the design of letterforms. Various typographic movements will be studied from both formal and historic perspectives. An extended typographic project will be completed. This class is intended for advanced graphic design majors.
Style: 10% Discussion. studio design projects and critique.
Grading: 100% other evaluation. studio design project and performance.

DHA 4351 Design Process: Photography
A-F only, 3 credits(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 4352 Design Process: Bookmaking
A-F only, 3 credits(s); prerequisite [DHA major or grad student or instr consent]; pass portfolio review; Instructor: Pauly, Mary Jo
Description: Student may contact the instructor or department for information.

DHA 4354 Graphic Design IV: Integrative Campaign
A-F only, 4 credits(s); prerequisite 3353, DHA major; Instructor: STAFF
Description: This course will focus on a multi-faceted designed communication campaign involving substantial investigation and conceptual application. The project undertaken will be, in large part, developed by the individual student as a result of his/her research and specific interests. The multi-faceted character of
the project will support a unified theme/concept/idea for an identified client that is aimed effectively at a specific market or interest group. The completed project will demonstrate the student’s ability to maximally apply acquired knowledge, skill and understanding of design, including a high degree of thought and sophisticated creativity. The course will build on typographic, compositional and imaging skills that students have developed in earlier classes.

**Style:** 30% Lecture, 30% Discussion, studio time

**Grading:** 25% class participation, 75% other evaluation. design project

DHA 4355 Graphic Design Portfolio
S-N only, 3 credit(s); prereq [4354 or 4365], DHA major;
Instructor: Pickman, Gregory Hunter
**Description:** Student may contact the instructor or department for information.

DHA 4365W Graphic Design Senior Seminar
A-F only, 3 credit(s); prereq 4354, DHA major; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: HUFF, Richelle Jayne
**Description:** Student may contact the instructor or department for information.

DHA 4461 Housing Development and Management
A-F only, 3 credit(s); prereq [2401, 2402, 2463] or grad student or instr consent ;
Instructor: Yust, Becky L
**Description:** This course focuses on development and management issues in multifamily housing. The subjects of study include: multifamily housing development planning and financing (particularly public financing), management approaches, management issues with specific residential populations such as the elderly and families with children, and affordable housing issues including public housing, cooperatives, manufactured or mobile homes, and community land trusts.
**Style:** 40% Lecture, 2% Film/Video, 10% Discussion, 5% Small Group Activities, 13% Student Presentation, 30% Guest Speakers.
**Grading:** 10% mid exam, 10% final exam, 40% reports/papers, 24% special projects, 16% reflection paper.
**Exam Format:** Exams are essay exams taken outside of class time on the Web through the course WebVista site.

DHA 4461 Housing Development and Management
A-F only, 3 credit(s); prereq [2401, 2402, 2463] or grad student or instr consent ;
Instructor: Bruin, Marilyn J
**Description:** This course focuses on development and management issues in multifamily housing. The subjects of study include: multifamily housing development planning and financing (particularly public financing), management approaches, management issues with specific residential populations such as the elderly and families with children, and affordable housing issues including public housing, cooperatives, manufactured or mobile homes, and community land trusts.
**Style:** 40% Lecture, 2% Film/Video, 10% Discussion, 5% Small Group Activities, 13% Student Presentation, 30% Guest Speakers.
**Grading:** 10% mid exam, 10% final exam, 40% reports/papers, 24% special projects, 16% reflection paper.
**Exam Format:** Exams are essay exams taken outside of class time on the Web through the course WebVista site.

DHA 4465 Housing in a Global Perspective
A-F only, 3 credit(s); prereq [2401, 2463] or grad student or instr consent ; Meets CLE req of International Perspect 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: English, Michael
**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: Wu, Jiujuan
**Description:** Student may contact the instructor or department for information.

DHA 5193 Directed Study in Design, Housing, and Apparel
A-F only, 1-4 credit(s), max credits 8; prereq instr consent ;
Instructor: STAFF
**Description:** Directed study in design, housing and apparel. The topics, course content and readings are developed under the guidance of the supervising faculty member. Typically reserved for graduate students.
**Style:** Working with supervising faculty
**Grading:** 100% reports/papers. Or may be related to a project earlier classes.

DHA 5342 Interactive Design 2: Interface Design
A-F only, 3 credit(s); prereq [[4384 or 5341], [DHA major or DHA grad student]] or instr consent ;
Instructor: Hokanson, Brad
**Description:**
**Style:** 2% Discussion, 3% Student Presentation, 5% Guest Speakers, 90% Web Based.

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);
- Instructor: Crump, Jeffrey R
- Description: Student may contact the instructor or department for information.

**DHA 5471 Housing Studies Certificate Seminar**
- A-F only, 2 credit(s);
- Instructor: Bruin, Marilyn J
- Description: Student may contact the instructor or department for information.

**DHA 8164 Innovation Theory and Analysis**
- 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);
- 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 completions allowed;
- 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 completions allowed;
- Instructor: Ziebarth, Ann
- Description: Student may contact the instructor or department for information.

**DHA 8192 Readings in Design, Housing, and Apparel**
- A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- 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 completions allowed;
- Instructor: DeLong, Marilyn R
- Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHA 8192</td>
<td>Readings in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Hokanson, Brad</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Ziebarth, Ann</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>LaBat, Karen Louise</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Jasper, Daniel</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Wu, Juanjuan</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Martin, Caren Samter</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Hadjiyanni, Tasoulla</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Chu, Sauman</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Waldron, Carol C</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Boyd-Brent, James W</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Hadijyanni, Tasoulla</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Martin, Caren Samter</td>
</tr>
<tr>
<td>DHA 8193</td>
<td>Directed Study in Design, Housing, and Apparel</td>
<td>A-F only, 1-3 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Zollinger, Stephanie Watson</td>
</tr>
</tbody>
</table>

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Johnson PhD,Kim 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 completions allowed;
prereq instr consent;
Instructor: DeLong,Marilyn R
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions 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 completions allowed;
prereq instr consent;
Instructor: Crump,Jeffrey R
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Bruin,Marilyn 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 completions 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 completions allowed;
prereq instr consent;
Instructor: Yust,Becky L
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 completions 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 completions allowed;
prereq instr consent;
Instructor: Ziebarth,Ann
Description: Student may contact the instructor or department for information.

DHA 8193 Directed Study in Design, Housing, and Apparel
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: LaBat,Karen Louise
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master’s Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Chu,Sauman
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master’s Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: By,E,Elizabeth Kersch
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master’s Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Waldron,Carol C
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master’s Project
S-N only, 3 credit(s); prereq DHA master's student, instr consent;
Instructor: Boyd-Brent,James W
Description: Student may contact the instructor or department for information.
DHA 8222 Plan B Master's Project  
S-N only, 3 credit(s); prereq DHA master's student, instr consent;  
Instructor: Hadijyanni, Tasoulla  
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project  
S-N only, 3 credit(s); prereq DHA master's student, instr consent;  
Instructor: Martin, Caren Samter  
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project  
S-N only, 3 credit(s); prereq DHA master's student, instr consent;  
Instructor: Guerin, Denise A  
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project  
S-N only, 3 credit(s); prereq DHA master's student, instr consent;  
Instructor: McCarthy, Steven J  
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project  
S-N only, 3 credit(s); prereq DHA master's student, instr consent;  
Instructor: DeLong, Marilyn R  
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project  
S-N only, 3 credit(s); prereq DHA master's student, instr consent;  
Instructor: McCarthy, Steven J  
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project  
S-N only, 3 credit(s); prereq DHA master's student, instr consent;  
Instructor: McCarthy, Steven J  
Description: Student may contact the instructor or department for information.

DHA 8222 Plan B Master's Project  
S-N only, 3 credit(s); prereq DHA master's student, instr consent;  
Instructor: Martinson, Barbara Elizabeth  
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, Barbara Elizabeth  
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: 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: McCarthy, Steven J  
Description: Student may contact the instructor or department for information.

Development Studies and Social Change

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
DDS 6113 Periodontology III Lecture  
A-F only, 1.5 credit(s);  
Instructor: Bakdash,Bashar  
Description: Student may contact the instructor or department for information.

DDS 6141 Pediatric Dentistry Clinic  
A-F only, 3.6 credit(s); prereq 3rd yr DDS student;  
Instructor: Yesli,Jasmine  
Description: Student may contact the instructor or department for information.

DDS 6151 Pain and Anxiety Control  
A-F only, 1.2 credit(s);  
Instructor: Kademani,Deepak  
Description: Student may contact the instructor or department for information.

DDS 6153 Oral and Maxillofacial Surgery II  
A-F only, 1.2 credit(s); prereq Oral Surgery I;  
Instructor: Basi,David Lawrence  

DDS 6172 Orthodontics II  
A-F only, 1.5 credit(s);  
Instructor: Pliska DDS,MS,Benjamin T  
Description: Student may contact the instructor or department for information.

DDS 6211 Introduction to Oral Biology  
A-F only, 1.1 credit(s); prereq 1st yr [DDS or DT student];  
Instructor: Rudney,Joel David  
Description: Student may contact the instructor or department for information.

DDS 6231 Physical Evaluation I  
A-F only, 2.9 credit(s); prereq 1st yr [DDS or DT student];  
Instructor: Hamamoto,Darryl T  
Description: Introduction to Oral Medicine and Diagnosis (Physical Evaluation I) is a dental course presenting essential aspects of patient evaluation that you will use during the examination of all patients in the various adult clinical programs in the School of Dentistry. For every adult patient that is admitted to the dental school program, it is required that a complete database be collected and a comprehensive diagnosis be determined prior to providing non-emergency dental treatment. This course is the first of two courses (along with Physical Evaluation II). The goal of these two courses is for you to learn the basic skills that you will need to 1) understand how each patient's personality structure and emotional state affect his/her systemic and oral health, 2) assess the medical history and physical status of a dental patient, 3) determine the condition of the patient's oral structures, and 4) formulate and document in the dental record a plan to manage the care of the patient. Oral health from both a medical and dental perspective. Physical Evaluation I builds upon what you have learned in previous courses or are learning in concurrent courses including, but not limited to, Gross Anatomy, Physiology, Neuroscience, and Biochemistry. Physical Evaluation I will teach you important concepts that will be built upon in Physical Evaluation II. Furthermore, the concepts and skills that you learn in these two courses will be the foundation of the clinical skills that you will need to become competent in Comprehensive Patient Evaluation in the Oral Medicine and Diagnosis Clinic.

DDS 6232 Physical Evaluation II  
A-F only, 1.9 credit(s);  
Instructor: Rhodus,Nelson L  
Description: Student may contact the instructor or department for information.

DDS 6233 Oral and Maxillofacial Radiology  
A-F only, 2 credit(s);  
Instructor: Ahmad,Mansur  
Description: Student may contact the instructor or department for information.

DDS 6242 Oral Medicine/Diagnosis II  
A-F only, 1 credit(s); prereq DDS student;  
Instructor: Rhodus,Nelson L  
Description: Student may contact the instructor or department for information.

DDS 6251 Oral Histology and Embryology and Medical Genetics  
A-F only, 2.6 credit(s);  
Instructor: Gopalakrishnan,Rajaram  
Description: The oral histology and embryology portion of this course focuses on basic knowledge of human embryology with emphasis on development of the oro-facial region, including the development of the face, palate and teeth. Structural microscopic anatomy of the oral hard and soft tissues is emphasized to provide a sound background for rendering clinical treatment. Examples of clinical and histopathologic variations of the hard
and soft tissues will be presented to demonstrate clinical relevance. The material presented in this portion of the course is based upon you having a working knowledge of the general histology of cells and tissues as presented in DDS 6214 General Histology. The genetics portion of this course focuses on human chromosomes, single gene traits, complex traits, population genetics and genetic diagnosis. These topics provide a sound background for understanding chromosomal anomalies, the genetics of oral and maxillofacial conditions such as facial clefts, periodontal disease and oral cancer. Upon successful completion of the course, the student will be able to critically evaluate histologic appearance of normal tissues, understand the important developmental processes, and the structural specialization of the cells and tissues of the oral cavity. This is a basic course that should prepare the student for critical thinking and improve their problem-solving ability necessary for other basic and clinical courses.

DDS 6252 Oral and Maxillofacial Pathology
A-F only, 3.1 credit(s);
Instructor: Koutlas, Ioannis George
Description: Student may contact the instructor or department for information.

DDS 6314 Patient Management
S-N only, 4.1 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

DDS 6332 Prevention and Oral Health Promotion
A-F only, 2.3 credit(s);
Instructor: Born, David Omar
Description: Student may contact the instructor or department for information.

DDS 6334 Professional Problem Solving
S-N only, 0.8 credit(s); prereq DDS 3rd yr;
Instructor: Quick, Karin
Description: Student may contact the instructor or department for information.

DDS 6438 Operative Dentistry III
A-F only, 3.8 credit(s); prereq Operative Dentistry [I, II], Operative Dentistry [I, II] Lab;
Instructor: Lee, Ignatius Kaiyan
Description:

DDS 6441 Operative Dentistry Clinic II
A-F only, 4 credit(s); prereq Operative Dentistry [I, II, III], Operative Dentistry [I, II] lab;
Instructor: Ziegler, Edgar F
Description: Student may contact the instructor or department for information.

DDS 6471 Preclinical Prosthodontics Lecture II
A-F only, 2.6 credit(s); prereq 5901, 5902;
Instructor: Adarve, Ranier Marfil
Description: Student may contact the instructor or department for information.

DDS 6472 Preclinical Prosthodontic Technique Laboratory II
A-F only, 2.6 credit(s); prereq 5901, 5902;
Instructor: Adarve, Ranier Marfil
Description: Student may contact the instructor or department for information.

DDS 6477 Preclinical Prosthodontics Technique Lecture V, Complete Dentures
A-F only, 1.8 credit(s);
Instructor: Conrad, Heather Joan
Description: This lecture/laboratory course is designed to provide the student with a fundamental level of theory and practice in complete denture construction. The purpose of this preclinical course is to introduce concepts of diagnosing, treatment planning, and treatment sequencing for the edentulous patient, as well as skill and knowledge necessary to restore form and function with complete dentures. The lecture and laboratory components will introduce the student to the instruments, terminology, basic principles, and technical/clinical procedures, used to fabricate complete dentures. This course should be considered as part of a continuum to expand on the fundamentals of removable partial dentures that are presented in DDS 6475/6 Preclinical Prosthodontics Technique IV, and provide the student with the fundamental knowledge and foundational skills to advance to DDS 6479 Clinical Occlusion, DDS 6491/2 Introduction to Clinical Implant Dentistry, and DDS 6482 Removable Prostheses Clinic I.

DDS 6478 Preclinical Prosthodontics Technique Laboratory V, Complete Dentures
A-F only, 2.8 credit(s);
Instructor: Conrad, Heather Joan
Description: This lecture/laboratory course is designed to provide the student with a fundamental level of theory and practice in complete denture construction. The purpose of this preclinical course is to introduce concepts of diagnosing, treatment planning, and treatment sequencing for the edentulous patient, as well as skill and knowledge necessary to restore form and function with complete dentures. The lecture and laboratory components will introduce the student to the instruments, terminology, basic principles, and technical/clinical procedures, used to fabricate complete dentures. This course should be considered as part of a continuum to expand on the fundamentals of removable partial dentures that are presented in DDS 6475/6 Preclinical Prosthodontics Technique IV, and provide the student with the fundamental knowledge and foundational skills to advance to DDS 6479 Clinical Occlusion, DDS 6491/2 Introduction to Clinical Implant Dentistry, and DDS 6482 Removable Prostheses Clinic I.

DDS 6479 Clinical Occlusion
A-F only, 1.3 credit(s), max credits 2.6; prereq Enrolled in dentistry program;
Instructor: Anderson, Gary Carl
Description: Clinical variation in occlusion encountered in a typical clinical setting. Guidelines to manage this variation.

DDS 6481 Fixed Prosthodontics Clinic II
A-F only, 5 credit(s); prereq 4810 Fixed Prosthodontics Clinic I;
Instructor: Cook, Gary Eugene
Description: Student may contact the instructor or department for information.

DDS 6482 Removable Prostheses Clinic II
A-F only, 5 credit(s); prereq 4962;
Instructor: Cook, Gary Eugene
Description: Student may contact the instructor or department for information.

DDS 6493 Prosthodontics I
A-F only, 1.1 credit(s), max credits 2.2; prereq Fundamentals of prosthodontics shape/color, aesthetics of anterior prosthodontics;
Instructor: Larson DDS, MS, William Richard
Description: Student may contact the instructor or department for information.

DDS 6511 Interprofessional Ethics Education
S-N only, 1 credit(s);
Instructor: Berthold, Peter
Description: Student may contact the instructor or department for information.
DTCH 1002 Beginning Dutch
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: DTCH 4002;
Instructor: Oosterhoff, Jenneke A
Description: Welkom terug in Nederlands 1002. This is the second course in the first-year language instruction sequence (1001-2), designed to develop a basic communicative proficiency in Dutch. Note: This is second semester beginning Dutch, so it is not a total beginner's course. Students will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. The main book is the textbook package of Code volume 1. The book is accompanied by a cd-rom which is meant for independent work by the students at home. Class time will be devoted to mostly speaking and listening skills. Supplementary materials about life and culture in Holland (short authentic and literary texts, songs, video, and pictures) will be an integral part of the course. The first-year courses encourage extensive student interaction, partner activities, and group work. A selection of new topics to be introduced includes: health, comparing school systems, the arts, finding a job, friends and family etc. Students should expect an average of 2 hours of outside preparation for each class session. See the description for Dtcg 4002 for an option for qualified students to register for this course for 2 credits instead of 5 credits.
Style: 20% Lecture. Interactive exercises (inc. lab)
Grading: 10% mid exam, 10% final exam, 40% quizzes, 20% class participation, 20% other evaluation. written homework
Exam Format: Quizzes and essays

DTCH 1004 Intermediate Dutch
5 credit(s); prereq 1003; Credit will not be granted if credit has been received for: DTCH 4004;
Instructor: Oosterhoff, Jenneke A
Description: This course continues the presentation of language skills (speaking, writing, listening and reading) begun in Dtcg 1003 with special focus on the extension of speaking and writing skills (in preparation for the LPE and OPI). The main course book used in this class is the textbook and dvd package of ‘Nederlands in actie’. This book is accompanied by audio materials which the instructor will use in class and you are expected to use at home. Class time will be devoted mostly to speaking and pre-writing activities. You will write 6 formal essays, each of which will be followed by a rewrite. In addition, you will read two Dutch novels. The course includes a variety of supplementary materials on Dutch life and culture: video sections from Dutch TV, information from Dutch websites, Dutch films. etc. You should expect an average of three hours of outside preparation per class session. See the description for Dtcg 4044 for an option for qualified students to register for this course for 2 credits instead of 5 credits.
Style: 20% Lecture. Pre-writing and interactive exercises
Grading: 10% mid exam, 10% final exam, 30% quizzes, 20% class participation, 30% other evaluation. written assignments
Exam Format: quizzes, essays

DTCH 3993 Directed Studies
1-5 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

DTCH 4002 Beginning Dutch
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DTCH 1002;
Instructor: Oosterhoff, Jenneke A
Description: Welkom terug in Nederlands 1002. This is the second course in the first-year language instruction sequence (1001-2), designed to develop a basic communicative proficiency in Dutch. Note: This is second semester beginning Dutch, so it is not a total beginner's course. Students will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. The main book is the textbook package of Code volume 1. The book is accompanied by a cd-rom which is meant for independent work by the students at home. Class time will be devoted to mostly speaking and listening skills. Supplementary materials about life and culture in Holland (short authentic and literary texts, songs, video, and pictures) will be an integral part of the course. The first-year courses encourage extensive student interaction, partner activities, and group work. A selection of new topics to be introduced includes: health, comparing school systems, the arts, finding a job, friends and family etc. Students should expect an average of 2 hours of outside preparation for each class session. See the description for Dtcg 4002 for an option for qualified students to register for this course for 2 credits instead of 5 credits.
Style: 20% Lecture. Interactive exercises (inc. lab)
Grading: 10% mid exam, 10% final exam, 40% quizzes, 20% class participation, 20% other evaluation. written homework
Exam Format: Quizzes and essays

DTCH 4004 Intermediate Dutch
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: DTCH 1004;
Instructor: Oosterhoff, Jenneke A
Description: This course continues the presentation of language skills (speaking, writing, listening and reading) begun in Dtcg 1003 with special focus on the extension of speaking and writing skills (in preparation for the LPE and OPI). The main course book used in this class is the textbook and dvd package of ‘Nederlands in actie’. This book is accompanied by audio materials which the instructor will use in class and you are expected to use at home. Class time will be devoted mostly to speaking and pre-writing activities. You will write 6 formal essays, each of which will be followed by a rewrite. In addition, you will read two Dutch novels. The course includes a variety of supplementary materials on Dutch life and culture: video sections from Dutch TV, information from Dutch websites, Dutch films. etc. You should expect an average of three hours of outside preparation per class session. See the description for Dtcg 4004 for an option for qualified students to register for this course for 2 credits instead of 5 credits.
Style: 20% Lecture. Pre-writing and interactive exercises
Grading: 10% mid exam, 10% final exam, 30% quizzes, 20% class participation, 30% other evaluation. written assignments
Exam Format: quizzes, essays

DTCH 5993 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

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

**Course Information**

**Course Guide at** [http://onestop.umn.edu](http://onestop.umn.edu)

**Important:** Before you attend the first class, verify the room location in the online Class Schedule. This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010

---

**EAS 3462 From Subjects to Citizens: The History of East Asia From 1500 to the Present**

**Course Information**

- **Credit(s):** 3-4 credits
- **Completion Allowed:** Max credit(s) 4, 1 completion allowed
- **Prerequisites:** Credit will not be granted if credit has been received for: HIST 3462; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme
- **Instructor:** 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.

**Style:**

- 70% Lecture
- 20% Discussion

**Grading:**

- 25% mid exam
- 35% final exam
- 30% reports/papers
- 10% class participation

**Exam Format:**

- Written exam/blue book/essay and identifications

---

**EAS 3465W China in the Ming and Qing Dynasties**

**Course Information**

- **Credit(s):** 3 credits
- **Prerequisites:** Credit will not be granted if credit has been received for: HIST 3465W; Meets CLE req of Writing Intensive
- **Instructor:** Qin, Fang

**Description:**

What would China look like between fourteenth and twentieth centuries? When you ask yourself this question, what would be the first image come to your mind? Is it like a static world isolated from the rest of the world, as Karl Marx asserts? Or is it a country filled with corruption and incompetence, as many missionary writings describe at that time? Neither of these images is really accurate. This course will walk you through the six hundred years of Ming (1368-1644) and Qing (1644-1911) dynasties and give you a deeper and more comprehensive understanding of the last two dynasties of Chinese history. To do so, this course will mainly focus on three aspects of the Ming and Qing dynasties, the state, society and international relationships. It examines topics such as state policies and governance, schools of orthodoxy and heterodoxy, printing culture, popular fiction and romance, women? lives, and interactions with the outside world. The primary sources will include government documents and legal codes, personal writings, fiction, and visual images and artifacts. Based on the closer reading of the primary sources, this course will also help you actively dialogue with the previous scholarship and critically think about some stereotype of Chinese history during this time period. Class time will be devoted mostly to lectures, but will also include discussion, films, and field trips. The work load for each week is approximately 80-100 pages and there will be three book reviews and a research paper. To meet the requirement of Intensive Writing class, students also need to revise the research paper and submit a final version of it.

---

**BIOL 3407; Meets CLE req of Environment Theme**

**Course Information**

- **Instructor:** Vaughter, Philip Claude Dziuk

**Description:**

Complex life forms have inhabited this planet for hundreds of millions of years. In fact, the Burgess Shale, which holds the fossilized remains of multicellular organisms that lived approximately 600 million years ago, preserves representatives of every major taxonomic group in the animal kingdom. Only recently, however, have organisms existed that can appreciate the beauty and complexity of Earth's living mantle. In at least one respect, we--human beings--appear to be unique. We not only have the tools necessary to study the natural world, but we can consciously experience the wonders of nature and derive pleasure from our efforts to uncover its many secrets. Philosophers like Rene Descartes have tended to separate humankind from the rest of creation, but this is a dangerous perspective. Looking at how nature functions necessarily involves looking at the ways we interact with our environment and with the other organisms that inhabit our Earth. Of course, recognizing that we are an integral part of the global biological community involves realizing that we, like all other living creatures, depend on other organisms and on a healthy environment. This course is really an introduction to two fields of study--ecology and environmental science. Ecology is the scientific study of those interactions that take place between living organisms and their environments. Environmental science has been defined as the interdisciplinary study of how humanity affects other living organisms and the nonliving physical environment. Your textbook, Environment (4th ed.) by Peter Raven and Linda Beijer is dedicated primarily to the latter. I might have chosen a second textbook, but that might be prohibitive for you. Instead, I have chosen to supplement your textbook with extensive study notes. These study notes take the place of traditional lectures and are just as important. I've designed the optional EEB 3001 Web site to complement your textbook and study guide. Note that you can do all of the assignments in the course without going online. The Web site is open to the public; you do not need an ID or password to access the site. The articles you will find there reinforce and update the material presented in your textbook and study guide. At the end of this course, you will be familiar with a variety of basic ecological concepts and terms. You should also be familiar with some of the world's most pressing environmental problems and be able to evaluate the environmental risks associated with a variety of human activities. I also hope you will discover that the beauty of nature is enhanced when it is the subject of careful observation and scientific study. The common perception that science is cold, dispassionate, and primarily utilitarian is unfounded. Science, at its best, is driven by curiosity and the excitement that accompanies new insights.

**Style:**

- Printed correspondence section

**Grading:**

- 10 written assignments = 200 points
- Midcourse exam = 200 points
- Final exam = 250 points

---

**EEB 3002 Sex, Evolution, and Behavior: Examining Human Evolutionary Biology**

**Course Information**

- **Instructor:** Hauff, Laura E

**Description:**

As human beings, our lives are profoundly shaped by our sexual identity and behavior. Whether we are women or men, straight or gay, celibate or sexually active, sex influences who we are and what we do in countless ways. In recent years, researchers inspired by evolutionary theory have made significant steps towards answering many of the fundamental questions about our existence as sexual beings. Why do we reproduce sexually instead of simply cloning ourselves? Why do we have two sexes, rather than one, or three, or five? Why do the sexes differ? What differences between men and women are consistent across different cultures? What do men and women want? If evolution is all about reproductive success, why do people use contraception, or have sex with members of their own sex? This class will provide an introduction to and critical reading of the latest efforts to explain the evolution of sexual differentiation, courtship, mating, marriage, divorce, parenting, aggression, cooperation, and other aspects of our behavior as sexually reproducing organisms.

---

**EEB 3001 Ecology and Society**

**Course Information**

- **Instructor:** Raven and Linda Berg, is dedicated primarily to the latter. I might have chosen a second textbook, but that might be prohibitive for you. Instead, I have chosen to supplement your textbook with extensive study notes. These study notes take the place of traditional lectures and are just as important. I've designed the optional EEB 3001 Web site to complement your textbook and study guide. Note that you can do all of the assignments in the course without going online. The Web site is open to the public; you do not need an ID or password to access the site. The articles you will find there reinforce and update the material presented in your textbook and study guide. At the end of this course, you will be familiar with a variety of basic ecological concepts and terms. You should also be familiar with some of the world's most pressing environmental problems and be able to evaluate the environmental risks associated with a variety of human activities. I also hope you will discover that the beauty of nature is enhanced when it is the subject of careful observation and scientific study. The common perception that science is cold, dispassionate, and primarily utilitarian is unfounded. Science, at its best, is driven by curiosity and the excitement that accompanies new insights.

**Style:**

- Printed correspondence section

**Grading:**

- 10 written assignments = 200 points
- Midcourse exam = 200 points
- Final exam = 250 points

---

**100 Ecology Building**

---

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at [http://onestop.umn.edu](http://onestop.umn.edu). IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ECON 1101 Principles of Microeconomics
4 credit(s); prereq knowledge of plane geometry and advanced algebra
credit will not be granted if credit received for: 1104, 1111, APEc 1101; Credit will not be granted if credit has been received for: APEC 1101; Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core!
Instructor: STAFF
Description: This is an introductory course in Economics. Topics covered include the behavior of consumers, firms, and markets in the domestic and world economy. Interdependencies in the global economy, and effects of global linkages on individual decisions.
Style: 75% Lecture, in discussion section

ECON 1101 Principles of Microeconomics
4 credit(s); prereq knowledge of plane geometry and advanced algebra
advanced algebra credit will not be granted if credit received
course for: 1104, 1111, ApeEc 1101; Credit will not be granted if
course for: APEC 1101; Meets CLE req of International Perspect Theme; meets CLE req of Social
Science Core;
Instructor: Sager, Erick
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This introductory course acquaints students with the basic tools in macroeconomics, including opportunity cost, debt, inflation, unemployment, the role of central banks, government investment, budget and trade deficits/surpluses, GDP, exchange rates, and fiscal and monetary policies. Basic macroeconomic tools and concepts are essential in understanding the economic way of thinking in a world with country interdependencies, multinational firms, and an increasingly open global economy. The concepts offer important insights into a variety of social, economic, and country interactions. The course attempts to emphasize that economic problems can be viewed from many angles and can be remedied in different ways, depending on the existing conditions and the underlying philosophy. In this course, you will learn the basic principles of macroeconomic theory and apply them to real-world scenarios. Economics is truly a unique subject, as it uses the academic rigor of the scientific method when studying relationships between economic agents (consumers, firms, the government, etc.). Since the economy is composed of an incredibly intricate and complex set of relationships between these agents, it is essential that we keep the problem at hand tractable. Therefore, it is necessary for us to use assumptions (some quite strong ones!) to ensure tractability. However, these assumptions, though sometimes seemingly restrictive and inconsistent with reality, allow economists to model economic relationships and thus analyze economic phenomena in a formal way. By the end of the course, you will see clearly that the conclusions reached by studying economic models are always a result of the assumptions that were made in the model. Therefore it is possible, and often common, for good economists to come to very different conclusions, not because of errors in their analyses, but because of the differences between their assumptions. This course should help you develop an understanding of the logical structure of economic models so that in the future, when confronted with two different policy options, both of which are purported to be best (think tax policy proposals in presidential elections), you can analyze for yourself the validity of the results based on the foundational assumptions.
In this course, you will be tested on your progress in mastering these principles of macroeconomics through problems in Apia (an online, auto-graded homework application), written assignments, a midterm exam, and a final exam. You are encouraged to work through the practice Apia assignments before completing the graded Apia assignments. The practice problems are there to assist you and will not affect your grade. They also mirror closely the graded assignments, which of course do count.
Style: 100% Web Based.
Grading: 29 Apia assignments (40%) 2 essay assignments (20%) 1 midterm exam (15%) 1 final exam (25%)

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 environment, like wars among states, competition among firms, and relationships among husband and wife. Together with the application of experiments methods, it is now providing a tool to understand some fundamental aspects of human nature, from sympathy to envy. The course will provide the basic tools to a good understanding of game theory and experimental analysis of human behavior in strategic situations. No special prerequisites are need, but the students will be asked to play an active role in the learning process. Books 1. Strategy: An Introduction to Game Theory, by Joel Watson 2. Evolution and the Theory of Games, Maynard Smith, J., Cambridge Univ. Press.

ECON 1905 Freshman Seminar: Fair Play in the Business

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
<table>
<thead>
<tr>
<th>Course</th>
<th>Instructor</th>
<th>Credit(s)</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 3010 Intermediate Microeconomics</td>
<td>STAFF</td>
<td>4</td>
<td>APEC 3001</td>
<td>This course is for non-majors in Economics. It includes a study of consumer and producer behavior under competitive and monopolistic conditions; factors influencing production, price, and other decisions of the firm; applications of the theory.</td>
</tr>
<tr>
<td>ECON 3012 Intermediate Macroeconomics</td>
<td>STAFF</td>
<td>4</td>
<td>APEC 3006</td>
<td>This course is required for Economics majors and is a prerequisite for most upper-division Economics courses. It essentially provides you with tools necessary to work with economic theory. Students should have completed Calculus I successfully prior to taking this course. Students are NOT permitted to take Calc I concurrently. The course includes the study of consumer and producer behavior under competitive and monopolistic conditions; factors influencing production, price, and other decisions of the firm; applications of the theory.</td>
</tr>
<tr>
<td>ECON 3701 Money and Banking</td>
<td>STAFF</td>
<td>3</td>
<td>Math 1271, 1102 or equiv</td>
<td>This course is required for Economics majors. Credit will not be granted if credit has been received for: APEC 4721; APEC 4722; Math 2242, Math 2263, Stat 4101, Stat 5101, Stat 5102; Math 4242 strongly recommended;</td>
</tr>
<tr>
<td>ECON 3951 Major Project Seminar</td>
<td>STAFF</td>
<td>A-F only, 2</td>
<td>APEC 3001 or 3102</td>
<td>A senior project is a requirement for the BA and BA-Q degrees in Economics. Students work with the instructor to produce a significant piece of written work in Economics. Criteria for the paper: to demonstrate critical thinking in Economics; collection and analysis of data; economic analysis and effective interpretation of results. Should be modeled as an economics journal article. Check the Undergraduate Handbook (web version or hard copy) on the four ways to satisfy this requirement.</td>
</tr>
<tr>
<td>ECON 4100W Undergraduate Writing in Economics</td>
<td>STAFF</td>
<td>1</td>
<td>APEC 3001</td>
<td>This course is a required course for Economics majors. Students work with the instructor to help them write the paper. Students turn in various drafts to the TA and receive feedback on every assignment. The final product is the completed paper.</td>
</tr>
<tr>
<td>ECON 4110 Introduction to Econometrics</td>
<td>STAFF</td>
<td>4</td>
<td>Math 1271, 1102 or equiv; Credit will not be granted if credit has been received for: APEC 4721; APEC 4722; Math 2242, Math 2263, Stat 4101, Stat 5101, Stat 5102</td>
<td>This course is a required course for Economics majors. Students must have completed all prerequisites prior to taking this course.</td>
</tr>
<tr>
<td>ECON 4111 History of Economic Thought</td>
<td>STAFF</td>
<td>3</td>
<td>Math 1271, 1102 or equiv</td>
<td>This course covers the history of economic thought, including the Mercantilist and Physiocratic doctrines, Adam Smith, Ricardo, Malthus, Marx, Keynes, and modern theory.</td>
</tr>
<tr>
<td>ECON 4112 Economic Evolution in Latin America</td>
<td>STAFF</td>
<td>3</td>
<td>Math 1271, 1102 or equiv</td>
<td>This course covers the economic evolution of Latin America since the 1950s, including the development of growth, trade, liberalization, poverty, inflation, and other issues in the Latin American economies.</td>
</tr>
<tr>
<td>ECON 4113 Introduction to Mathematical Economics</td>
<td>STAFF</td>
<td>4</td>
<td>Math 1271, 1102 or equiv</td>
<td>This course covers the central mathematical techniques used in the mathematical approach to economic analysis, including optimization with constraints, the approach derived from multivariate calculus.</td>
</tr>
<tr>
<td>ECON 4114 Economic Development</td>
<td>STAFF</td>
<td>3</td>
<td>Math 1271, 1102 or equiv</td>
<td>This course covers the economic development of Japan. Issues covered include trade, development, growth, population, capital formation, and current issues.</td>
</tr>
<tr>
<td>ECON 4115 The Japanese Economy</td>
<td>STAFF</td>
<td>3</td>
<td>Math 1271, 1102 or equiv</td>
<td>This course covers the economic development of Japan. Issues covered include trade, development, growth, population, capital formation, and current issues.</td>
</tr>
<tr>
<td>ECON 4331W Economic Development</td>
<td>STAFF</td>
<td>3</td>
<td>Math 1271, 1102 or equiv</td>
<td>This course covers the economic development of Japan. Issues covered include trade, development, growth, population, capital formation, and current issues.</td>
</tr>
</tbody>
</table>

Grading: 100% reports/papers.
Instructor: STAFF
Description: Econ 4331W is a writing intensive course, and students need at least a C in the paper to pass the course. Economic growth and development - indicators, evidence in low and high income countries. Growth theory. Resource allocation.
Style: 90% Lecture, 10% Discussion.

ECON 4337 Comparative Economic Systems
3 credit(s); prereq 3101, 3102 or equiv; Credit will not be granted if credit has been received for: ECON 4307; Meets CLE req of International Perspect Theme; Instructor: STAFF
Description: Study of various economic systems, functions and comparisons. Post-socialist transitions in Eastern Europe, Russia, Asia, and China. Economic reforms. Case studies of various countries.
Style: 90% Lecture, 10% Discussion.
Exam Format: essay, short problems

ECON 4371 Money and Banking
3 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 3701; Instructor: STAFF

ECON 4391W International Trade
3 credit(s); prereq [3101, 3102] or equiv; Meets CLE req of International Perspect Theme; Meets CLE req of Writing Intensive; Instructor: Sahi/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: 95% Lecture, 5% Discussion.
Exam Format: essay and true/false explain.

ECON 4432W International Finance
3 credit(s); prereq 3101, 3102 or equiv; 4431 or 4439 or equiv recommended; Meets CLE req of International Perspect Theme; Meets CLE req of Writing Intensive; Instructor: STAFF
Description: Balance of payments, international financial markets, exchange rates, international monetary systems, international investment and capital flows, open economy macroeconomic policy.
Style: 95% Lecture, 5% Discussion.

ECON 4631W International Organization and Antitrust Policy
3 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 4631H; Instructor: STAFF
Description: Relations between market structure, economic efficiency and welfare. Economic origins of market imperfections - monopoly and other restraints on competition. Purpose of antitrust and related legislation and effects. Industrial policy. Exam Format: problems and short essays

ECON 4721 Money and Banking
3 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 3701; Instructor: STAFF
Description: Theories of money demand and money supply. Financial intermediation, banking, nonbank financial institutions, bank regulation. Role of the Federal Reserve System. Exam Format: essay, short problems

ECON 4731H Honors Course: Macroeconomic Policy
4 credit(s); prereq [3101, 3102] or equiv, Math 1271, honors; Instructor: STAFF

ECON 4741H Honors: Quantitative Analysis of the Macroeconomy
4 credit(s); prereq [3101, 3102] or equiv, [Stat 3011 or equiv]; Instructor: STAFF

ECON 4751 Financial Economics
3 credit(s); prereq 3101 or equiv, Math 1271 or equiv, 1 sem statistics; Credit will not be granted if credit has been received for: ECON 4751H; Instructor: STAFF
Style: 95% Lecture, 5% Discussion.
Exam Format: problems, short essays

ECON 4831 Cost-Benefit Analysis
3 credit(s); prereq 3101 or equiv; Credit will not be granted if credit has been received for: ECON 4611H; Instructor: STAFF
Description: Principles for evaluating benefits and costs of public projects or programs. Issues concerned with definition of benefits and costs. Rate of return, rate of discount. Market imperfections, risk, and uncertainty. Case studies.
Style: 95% Lecture, 5% Discussion.
Exam Format: Essay; problem solving

ECON 4993 Directed Study
1-4 credit(s), max credits 4, 1 completion allowed; prereq For honors thesis, instr consent ; Instructor: STAFF
Description: This is for economics honors theses only.

**Education and Human Development**

110 Wulling Hall

**EDHD 1920 C**EHD Special Topics: AmeriCorps Citizen Scholar Leadership Seminar
1 credit(s), max credits 3, 1 completion allowed; Instructor: Strommer, Jean Theresa
Description: Student may contact the instructor or department for information.

**EDHD 1920 C**EHD Special Topics: America Reads: Tutoring, Literacy & Social Justice
1 credit(s), max credits 3, 1 completion allowed; Instructor: Miller, Rosemary F
Description: Student may contact the instructor or department for information.

**EDHD 1920 C**EHD Special Topics: America Reads: Tutoring, Literacy & Social Justice
1 credit(s), max credits 3, 1 completion allowed; Instructor: Miller, Rosemary F
Description: America Reads: Tutoring, Literacy, and Engagement is a 1 credit course that is required for all first and second year America Reads Tutors. The course consists of an initial New Tutor Orientation, three 2-hour class sessions, and corresponding community engagement assignments which will take place within the greater community. Fall Semester’s topics focus on pertinent issues related to the tutoring experience and which contribute to an overall understanding of the Twin Cities community. Topics include: ?Immigration in the Twin Cities?, ?Lesson Planning and Choosing Appropriate Children’s Books?, and ?Developing Reading Comprehension?. Participation in this class will assist students in becoming more proactive, competent tutors and more aware, engaged community members. Grades will be awarded based on attendance, in-class participation, and successful completion of all journal and community engagement assignments. America Reads supervisor’s permission needed to register.

**EDHD 1920 C**EHD Special Topics: America Reads: Tutoring, Literacy & Social Justice
1 credit(s), max credits 3, 1 completion allowed; Instructor: Miller, Rosemary F
Description: America Reads: Tutoring, Literacy, and Engagement is a 1 credit course that is required for all first and second year America Reads Tutors. The course consists of an initial New Tutor Orientation, three 2-hour class sessions, and corresponding community engagement assignments which will take place within the greater community. Fall Semester’s topics focus on pertinent issues related to the tutoring experience and which contribute to an overall understanding of the Twin Cities community. Topics include: ?Immigration in the Twin Cities?, ?Lesson Planning and Choosing Appropriate Children’s Books?, and ?Developing Reading Comprehension?. Participation in this class will assist students in becoming more proactive, competent tutors and more aware, engaged community members. Grades will be awarded based on attendance, in-class participation, and successful completion of all journal and community engagement assignments. America Reads supervisor’s permission needed to register.

**EDHD 1920 C**EHD Special Topics: America Reads: Tutoring, Literacy & Social Justice
1 credit(s), max credits 3, 1 completion allowed; Instructor: Miller, Rosemary F
Description: America Reads: Tutoring, Literacy, and Engagement is a 1 credit course that is required for all first and second year America Reads Tutors. The course consists of an initial New Tutor Orientation, three 2-hour class sessions, and corresponding community engagement assignments which will take place within the greater community. Fall Semester’s topics focus on pertinent issues related to the tutoring experience and which contribute to an overall understanding of the Twin Cities community. Topics include: ?Immigration in the Twin Cities?, ?Lesson Planning and Choosing Appropriate Children’s Books?, and ?Developing Reading Comprehension?. Participation in this class will assist students in becoming more proactive, competent tutors and more aware, engaged community members. Grades will be awarded based on attendance, in-class participation, and successful completion of all journal and community engagement assignments. America Reads supervisor’s permission needed to register.

**EDHD 3002 Exploring the Teaching Profession II**
A-F only, 2 credit(s); prereq 3001, admission to DirecTrack to Teaching; Instructor: Stone, Karla Rae
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: Varma, Keisha
Description: Student may contact the instructor or department for information.

**EDHD 5003 Developmental and Individual Differences in Educational Contexts**
A-F only, 2 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 5004 Teaching Students With Special Needs in Inclusive Settings**
A-F only, 2 credit(s); prereq Teacher preparation program in [CEHD or music education or agriculture education or DirecTrack] or instr consent; Instructor: Seifert, PhD, Kathy
Description: Student may contact the instructor or department for information.

**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 Cryss
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 5009 Human Relations: Applied Skills for School and Society**
A-F only, 1 credit(s); prereq MEd/init lic or CLA music ed or preteaching or instr consent; Instructor: Goh, PhD, Michael P.
Description: Student may contact the instructor or department for information.

**Educational Policy and Administration**

330 Wulling Hall

**EDPA 1301W Personal Leadership in the University**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive; Instructor: Duenez, Michael
Description: Student may contact the instructor or department for information.

**EDPA 1301W Personal Leadership in the University**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive; Instructor: Christopherson, Christen Ruth
Description: This introductory level course presents leadership
using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

**Style:** 100% Web Based. Web-based work includes discussion forum and 2 student presentations.

**Grading:** 50% reports/papers, 15% reflection paper, 10% in-class presentation, 25% class participation.

**EDPA 1301W Personal Leadership in the University**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

**Instructor:** Werner Linnette

**Description:** This course introduces leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views of 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. This section will be co-taught by Linette Werner and Sarah Bunton.

**Style:** 33% Lecture, 33% Discussion. guest speakers, in-class activities

**Grading:** 15% final exam, 25% reports/papers, 20% special projects, 10% in-class presentation, 15% class participation, 15% other evaluation. leadership journal

**Exam Format:** short essay

**EDPA 1301W Personal Leadership in the University**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

**Instructor:** Cottledge, Anitra D

**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.

**Study:**

**EDPA 1301W Personal Leadership in the University**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

**Instructor:** 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 effective leadership and learn about the importance of personal development.

**Study:**

**EDPA 1301W Personal Leadership in the University**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

**Instructor:** Stallman, Elizabeth M

**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.

**Study:**

**EDPA 1301W Personal Leadership in the University**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

**Instructor:** Hellstrom, David P

**Description:** This 1000 level course introduces leadership using a personal leadership perspectives and frameworks. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of leaders within the University of Minnesota and learn about the importance of personal development.

**Study:**

**EDPA 1301W Personal Leadership in the University**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive;

**Instructor:** Ellsworth, Chad

**Description:** This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

**Style:** 20% Lecture, 5% Film/Video, 50% Discussion, 20% Small Group Activities, 5% Student Presentation.

**Grading:** 40% reports/papers, 20% reflection paper, 20% in-class presentation, 20% class participation.

**EDPA 1909W Freshman Seminar: International Perspectives and Writing Intensive (IP, WI): Leapfrog into the Future: Creating your Futures**

3 credit(s), max credits 6; prereq Fr; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;

**Instructor:** Harkins, Arthur M

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

**EDPA 3010 Special Topics for Undergraduates**

1-3 credit(s), max credits 9, 9 completions allowed;

**Instructor:** STAFF

**Description:** Inquiry into educational policy and administration problems and issues. No special topic has yet been approved for Fall 2000.

**EDPA 3036 Religion, Ethics, and Educational Policy**

3 credit(s);

**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. Students will interact with community and religious leaders, consider legal and ethical issues in schooling, as well as issues of religion and science, values education, school prayer, students’ and educators’ rights and responsibilities with respect to religious expression, religion in the global educational context, and related topics. The course includes weekly guest presentations and dinner (once during the semester) at the course instructor’s home.

**Style:** 30% Lecture, 20% Discussion, 5% Small Group Activities, 5% Field Trips, 40% Guest Speakers.

**Grading:** 35% reports/papers, 25% quizzes, 20% reflection paper, 5% in-class presentation, 15% class participation.

**EDPA 3103 Global Identity: Connecting Your International Experience to Your Future**

S-N only, 1 credit(s); prereq [3102 or instr consent ];

**Instructor:** Fry, Gerald Walton

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

**EDPA 3302 Leadership, You, and Your Community**

A-F only, 3 credit(s); prereq [1301W or PA 1961W], grade of at least C, [soph or at least 60 cr]; Credit will not be granted if credit has been received for: PA 3961;

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Instructor: Christopherson, Christen Ruth  
Description: This course will examine leadership and leadership capacities within the context of social change and public work. Students taking this course will have the opportunity to examine their own views of leadership and social change, learn about leadership theory and core concepts of Public Achievement, and apply knowledge to practice utilizing the Public Achievement model. Particular attention is given to group leadership and the effectiveness of groups and organizations accomplishing change. There are a few aspects to the content of this course which make it unique when compared to traditional collegiate and leadership instruction: As a method of examining leadership capacities within a social change movement, this class will utilize the history, current status, and stories about the issue of poverty as a context. As the theme for the course, many portions of the class content and discussion will explore the issue of poverty. This method is meant as an example of public leadership happening within the intricacies of a social movement and issue. Another major content component of this course is the Public Achievement model. A little less than half of the assigned class days will be dedicated to working within smaller groups (encompassing about 1/3 of the class in each) on a Public Achievement project. For these projects, each of the instructors, in addition to a teaching assistant, will be assigned as a coach for one Public Achievement group. More information about Public Achievement is available in the subsequent pages of this syllabus.

Style: 10% Lecture, 5% Film/Video, 20% Discussion, 50% Small Group Activities, 10% Student Presentation, 5% Guest Speakers. The major portion of this class is the Public Achievement process.

Grading: 20% final exam, 20% reports/papers, 5% quizzes, 5% attendance, 10% journal, 35% in-class presentation, 5% class participation.

Exam Format: Final exam is a take-home written essay.

EDPA 3402 Leadership, You, and Your Community  
A-F only, 3 credit(s); prereq [1301W or PA 1961W], grade of at least C, [soph or at least 60 cr]; Credit will not be granted if credit has been received for: PA 3961;

Instructor: Asmundson, Aaron R

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, each of the instructors, in addition to a teaching assistant, will be assigned as a coach for one Public Achievement group. More information about Public Achievement is available in the subsequent pages of this syllabus.

Style: 10% Lecture, 10% Film/Video, 20% Discussion, 25% Small Group Activities, 5% Guest Speakers. The major portion of this class is the Public Achievement process.

Grading: 20% final exam, 20% reports/papers, 5% quizzes, 5% attendance, 10% journal, 35% in-class presentation, 5% class participation.

Exam Format: Final exam is a take-home written essay.
EDPA 5001 Formal Organizations in Education  
3 credit(s);  
Instructor: Brunner, C Cryss  
Description: Classical/current theories of organizations. Applications to education and related fields.

EDPA 5011 Leading Organizational Change: Theory and Practice  
3 credit(s);  
Instructor: Seashore, Karen Rose  
Description: This course is designed to provide a vehicle for graduate students and practicing educational professionals to grapple with the theoretical and practical bases for improving organizations. The main focus of the course will be on empirical research conducted over the past quarter of a century that deals with change in schools and universities. Four main themes will be the focus of the class: (1) The way in which knowledge, research, accountability data, and professional expertise is incorporated in and affects the change process in human service and educational work settings; (2) The nature of work in educational and human service settings, and how it can be reorganized to improve them; (3) The characteristics of schools, IHEs and other human service organizations, and their impact on change processes and outcomes, and (4) leadership and policy effects. While the course will be grounded in data-based studies, they will be used as a springboard for students to develop their own syntheses, which could be oriented to either a theoretical framework or a design for a change initiative or both. The intersection of research and practice will be at the heart of the class work.  
Style: 20% Lecture, 20% Discussion, 15% Laboratory, 20% Small Group Activities, 20% Student Presentation, 5% Guest Speakers.  
Grading: 60% reports/papers, 20% in-class presentation, 20% class participation. Assignments are intended to lead up to the final paper. In class presentations involve helping to organize learning experiences for other members of the class.

EDPA 5044 Introduction to the Economics of Education  
3 credit(s);  
Instructor: Fry, Gerald Walton  
Description: Costs and economic benefits of education, with a focus on K-12; educational markets, prices, and production relationships; investment and cost-benefit analysis.

EDPA 5061 Ethnographic Research Methods  
3 credit(s);  
Instructor: Fry, Gerald Walton  
Description: This seminar provides an overview of the various approaches to doing ethnographic research. Among techniques and methods to be examined are accessing communities; formulation of questions; various types of interviewing; participant-observation; selecting and working with informants; life history research and understanding cultural identities; case studies; and writing up field data. The uses and abuses of ethnography as a tool for studying other cultures is critically assessed. Also considered are ethical issues in the use of ethnography. In the course there is a special emphasis on experiential education and learning. Students will conduct a mini-ethnography, directly relevant to their professional interests. There are no examinations, but instead a set of experiential activities to enhance students' competence in doing ethnographic research. Each student will develop a portfolio of writings related to various activities. A major goal is to have students develop professional competency in using various ethnographic research methods. There is a special focus on the non-Western critique of conventional cross-cultural research and the emergence of indigenous approaches to research. A key text for the course is a volume by Linda Tuhiwai Smith titled "Decolonizing Methodologies." The course is intended for graduate students or seniors who anticipate doing intercultural and/or international research.  
Style: 30% Lecture. 70% Discussion.  
Grading: 80% reports/papers, 10% in-class presentation, 10% class participation.

EDPA 5080 Special Topics: Educational Policy and Administration  
1-3 credit(s), max credits 24, 24 completions allowed;  
Instructor: Ropers-Huilman, Rebecca Lynn  
Description: This course is designed to introduce students to the study and practice of public engagement in higher education. Public engagement and community-based organizations. For more information please contact the instructor: Amy Garrett Dikkers, EdPA, garre014@umn.edu and Kristi Rudelius-Palmer, University Human Rights Center, krp@umn.edu  
Style: Online course, no face-to-face meetings. Offered through Moodle.

EDPA 5080 Special Topics: Educational Policy and Administration  
1-3 credit(s), max credits 24, 24 completions allowed;  
Instructor: Seashore, Karen Rose  
Description: The intent of this course is to foster enthusiasm and commitment to Human Rights and Human Rights Education. Human Rights Education will equip students with the pedagogies, methods, and strategies appropriate for teaching Human Rights. This course is designed for those who want to be teachers of and leaders for Human Rights in PK-16 education and community-based organizations. For more information please contact the instructors: Amy Garrett Dikkers, EdPA, garre014@umn.edu and Kristi Rudelius-Palmer, University Human Rights Center, krp@umn.edu  
Style: Online course, no face-to-face meetings. Offered through Moodle.
time? Articulate various philosophies and theoretical frameworks that guide engagement research and practice, and how these conceptual pieces inform the development of engagement programs? Identify and apply best practices of engaged teaching and learning, scholarship, and service, and relate these practices to unique institutional missions and contexts? Develop strategies for supporting engagement on their own campuses? Consider future directions for research on engagement.

EDPA 5087 Seminar: Educational Policy and Administration
1-3 credit(s), max credits 24, 24 completions allowed;
Instructor: STAFF
Description: Shared responsibility of students/instructor in presentation of topics.

EDPA 5095 Problems: Educational Policy and Administration
1-3 credit(s), max credits 24, 24 completions allowed;
Instructor: STAFF
Description: Course or independent study on specific topic within department program emphasis.

EDPA 5096 Internship: Educational Policy and Administration
1-9 credit(s), max credits 24, 24 completions allowed;
Instructor: STAFF
Description: Internship in elementary, secondary, general, or postsecondary administration, or other approved field-related setting.

EDPA 5101 International Education and Development
3 credit(s);
Instructor: 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-nonformal-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 feminist 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.

EDPA 5102 Knowledge Constructions and Applications in International Development Contexts
3 credit(s);
Instructor: Harkins,Arthur M
Description: Knowledge Formats and Applications describes and explains the growing presence of knowledge as a resource in the multi-institutional global economy. Knowledge is defined as the means by which information resources are transformed into valuable products and services. First identified by Peter Drucker over thirty years ago, knowledge workers are now 40% of the U.S. workforce and growing. Knowledge mining and refining, innovation, management and application are covered, together with the role of telecomputing in supporting these interrelated functions. Students' papers utilize course resources to explore potential applications of knowledge systems and workers at selected points within the global framework. The class is Web CT-supported.
Style: 40% Lecture, 30% Discussion. student reports
Grading: 40% reports/papers, 30% class participation, 30% other evaluation. paper-support portfolio

EDPA 5103 Comparative Education
3 credit(s);
Instructor: Vavrus,Frances
Description: This course explores the history, methodologies, and major debates in the field of comparative education, a field united by the belief that one's own educational system and practice can be improved by examining other ways of teaching and learning. It is also a field enlivened by differences of approach and scope, and by divergent views on what it means to compare? two or more schools or societies. We will approach comparative education chronologically by looking changes in the dominant approaches to the field throughout the 20th century up to the present. We will also examine several enduring topics and analyze current debates, such as school improvement strategies, civic education, and the role of religion in schools. By engaging in critical discussions of case studies from different world regions, I hope you will develop an appreciation of the multiplicity of perspectives and practices surrounding education and of the ways that global and local forces shape schooling the world over.

EDPA 5121 Educational Reform in International Context
3 credit(s);
Instructor: Chapman,David W
Description: 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.

EDPA 5124 Critical Issues in International Education and Educational Exchange
3 credit(s); Meets CLE req of International Perspectives Theme;
Instructor: Fry,Gerald Walton
Description: 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.

EDPA 5128 Anthropology of Education
3 credit(s); Credit will not be granted if credit has been received for: ANTH 5128;
Instructor: Demerath,Peter
Description: Student may contact the instructor or department for information.

EDPA 5132 Intercultural Education and Training: Theory and Application
3 credit(s);
Instructor: Kappler,Barbara Jean
Description: Student may contact the instructor or department for information.

EDPA 5141 Global Youth Policy and Leadership: Comparative Youth Policy and Leadership
A-F only, 3 credit(s);
Instructor: Schneider,X,Byron J
Description: Comparative approach to study of public responses at global level to youth development and leadership issues. Focus on social systems (such as education, health, employment and recreation), role of individuals, communities, governments and international organizations which are directed to provide programs/services to young persons.

EDPA 5142 Youth Futures in International and Global Contexts
A-F only, 3 credit(s); prereq CIDE student or instr consent;
Instructor: Harkins,Arthur M
Description: Address strategic trends in global youth development, including positive/negative implications. Attention to reconciling positive/negative trends with normative scenarios with respect to presence, absence, and projected likelihood of suitable policies, workable collaborations, and funding.

EDPA 5302 Educational Policy: Context, Inquiry, and Issues
3 credit(s);
Instructor: STAFF
Description: Review of social science concepts/research in considering educational policies/issues; process of inquiry that affect policy development, implementation, evaluation. Focus on preK-12. Role of educational leaders, administrators.
EDPA 5310 Data-Driven Decision Making I
1 credit(s); prereq Broadband Internet access, a newer computer;
Instructor: Nielsen,Kristine Bryan
Description: Student may contact the instructor or department for information.

EDPA 5324 Strategic Financial Planning and Policy for Educational Leaders
3 credit(s); prereq Grad student pursuing licensure as elementary/special educator [principal or superintendent];
Instructor: Wilson PhD,Thomas F.
Description: Student may contact the instructor or department for information.

EDPA 5348 Leaders of Human Resources Administration
2 credit(s); prereq Designed for students working on licensure for dir of community educ or superintendent or K-12 principal or dir of special educ;
Instructor: Lovett,Michael James
Description: Student may contact the instructor or department for information.

EDPA 5356 Disability Policy and Services
3 credit(s);
Instructor: Johnson PhD,David Richard
Description: This course provides a broad overview of disability policy and services and introduces students to philosophical approaches to service provision, historical development and context of community services for persons with disabilities, and contemporary approaches to providing services to people with disabilities throughout the life cycle. Researchers and professionals from the University of MN and community will offer information and best practical examples of service delivery approaches. Lecture, discussion and presentation by students are the primary focus of methods.
Style: 50% Lecture, 50% Discussion.
Grading: 35% final exam, 20% reports/papers, 40% special projects, 5% class participation.
Exam Format: Essay

EDPA 5361 Project in Teacher Leadership
S-N only, 3 credit(s), max credits 8, 1 completion allowed;
Instructor: Kalnin,Julie
Description: Student may contact the instructor or department for information.

EDPA 5368 Leadership for Special Education Services
3 credit(s); prereq Administrator or supervisor or professional responsible for managing general or special or alternative education program;
Instructor: Riesgraf,Kim Marie Wogensen
Description: Class Description: Legislative, procedural, executive, and judicial actions that affect services, families, and children with special needs at all levels of government: federal, state, and local. For administrators, supervisors, and other professionals responsible for managing general, special, and alternative education programs.

EDPA 5381 The Search for Children and Youth Policy in the U.S.
3 credit(s);
Instructor: Bloomberg PhD,Laura L
Description: SEARCHING FOR YOUTH POLICY.....The United Nations Convention on the Rights of the Child was adopted by the U.N. General Assembly in 1989 and ratified by all nations except the United States and Somalia. This begs the question: does the United States have a comprehensive Youth Policy or set of policies? Do we have a common understanding of the rights and responsibilities of youth in our society and is this reflected in the policies that most impact young people? Does it matter? Why should we care? This seminar-style course will explore these and related questions as we grapple with the impact of youth policy (or the lack thereof) on questions of economic development, formal and non-formal learning, health and human services, housing, immigration, juvenile justice, national security, and youth engagement.
Style: 50% Discussion, 10% Small Group Activities, 20% Student Presentation, 20% Guest Speakers.

EDPA 5385 Licensure Seminar: Program Policies and Inclusionary Leadership
S-N only, 1 credit(s);
Instructor: Werner PhD,Ann Zweber
Description: Preparation for licensure program. Program overview, preassessment, reflective practice, APA writing, exit panel review, administrative employment interview.

EDPA 5387 Leadership for Teaching and Learning
2 credit(s); prereq Undergrad degree;
Instructor: York-Barr,Jennifer
Description: Administration of teaching/learning as a system in an inclusive school system. Multiple experts present components of system. Focuses on questions an administrator must address when functioning as leader of learning.

EDPA 5389 Community Education Leadership
3 credit(s);
Instructor: Latimer,Sally Winifred
Description: Competencies of leadership, community relations, communication, community assessment, program development, program evaluation. Philosophy/administration of community/alternative education programs.

EDPA 5393 Leading School Finance Elections
S-N only, 1 credit(s);
Instructor: Blaesing,Ted
Description: Student may contact the instructor or department for information.

EDPA 5396 Field Experience in PK-12 Administration:
Authentic Practice in Leadership
S-N only, 3 credit(s), max credits 12, 4 completions allowed;
prereq instr consent;
Instructor: Dragseth,Kenneth Allen
Description: Student may contact the instructor or department for information.

EDPA 5501 Principles and Methods of Evaluation
3 credit(s); Credit will not be granted if credit has been received for: EPSY 5243;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

EDPA 5524 Evaluation Colloquium
S-N only, 1 credit(s), max credits 24, 24 completions allowed; prereq 5501 or EPSY 5243; Credit will not be granted if credit has been received for: EPSY 5246;
Instructor: STAFF
Description: Informal seminar of faculty and advanced students interested in the issues and problems of program evaluation.

EDPA 5528 Focus Group Interviewing Research Methods
3 credit(s);
Instructor: Krueger,Richard A
Description: Students will develop skills needed to conduct focus group interviews which involve learning and practicing techniques that result in successful focus groups. Students will be expected to conduct a focus group study and report results for the final class session. Attention is placed on using focus groups in interpretative environments suitable for academic research, or as mixed-method applied research 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;
EDPA 5724 Leadership and Administration of Student Affairs
2-3 credit(s), max credits 3, 1 completion allowed; Credit will not be granted if credit has been received for: EPSY 5421;
Instructor: Wambach, Cathrine A
Description: Student may contact the instructor or department for information.

EDPA 5732 The Law and Postsecondary Institutions
3 credit(s);
Instructor: Donohue, William Patrick
Description: Student may contact the instructor or department for information.

EDPA 8002 Critical Issues in Contemporary Education
3 credit(s); prereq EdD or PhD student;
Instructor: Nunnely, Richard Dean
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: Demerath, Peter
Description: Student may contact the instructor or department for information.

EDPA 8087 Seminar: Educational Policy and Administration
1-3 credit(s), max credits 24, 24 completions allowed;
Instructor: Magnusson PhD, Deanne L
Description: Student may contact the instructor or department for information.

EDPA 8087 Seminar: Educational Policy and Administration:
Advanced Seminar in Int'l Development Education
1-2 credit(s), max credits 24, 24 completions allowed;
Instructor: Dejaeghere, Joan Geralyn
Description: Student may contact the instructor or department for information.

EDPA 8087 Seminar: Educational Policy and Administration
1-3 credit(s), max credits 24, 24 completions allowed;
Instructor: Vavrus, Frances
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 completions allowed; prereq EdPA PhD candidate;
Instructor: Magnusson PhD, Deanne L
Description: Student may contact the instructor or department for information.

EDPA 8121 Doctoral Seminar: Comparative and International Development Education
S-N only, 1-6 credit(s), max credits 6, 4 completions allowed; prereq EdPA PhD candidate;
Instructor: Chapman, David W
Description: Student may contact the instructor or department for information.

EDPA 8143 Integrative Seminar in Global Youth Policy and Leadership
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq CIDE student or instr consent
Instructor: Schneider, X. Byron J
Description: 8143 is an “open” seminar, in the sense that guests of various professional and applied backgrounds are routinely invited to discuss current conditions and alternative futures for global youth, together with the policy and practice alternatives that could help these youth. Please contact Professor Arthur Harkins (harki001@umn.edu) or Professor Byron Schneider (schne003@umn.edu) for more information.

EDPA 8143 Integrative Seminar in Global Youth Policy and Leadership
A-F only, 1 credit(s), max credits 3, 3 completions allowed; prereq CIDE student or instr consent
Instructor: Harkins, Arthur M
Description: 8143 is an “open” seminar, in the sense that guests of various professional and applied backgrounds are routinely invited to discuss current conditions and alternative futures for global youth, together with the policy and practice alternatives that could help these youth. Please contact Professor Arthur Harkins (harki001@umn.edu) or Professor Byron Schneider (schne003@umn.edu) for more information.

EDPA 8313 Inquiry for School Improvement Part II
A-F only, 3 credit(s); prereq 8312, instr consent
Instructor: Kalnin, Julie
Description: Student may contact the instructor or department for information.

EDPA 8595 Evaluation Problems
1-6 credit(s), max credits 24, 24 completions allowed; prereq [5501 or EPSY 5243], instr consent; Credit will not be granted if credit has been received for: EPSY 8295;
Instructor: King, Jean A
Description: Student may contact the instructor or department for information.

EDPA 8596 Evaluation Internship
1-9 credit(s), max credits 24, 24 completions allowed; prereq [5501 or EPSY 5243], instr consent; Credit will not be granted if credit has been received for: EPSY 8296;
Instructor: Krueger, Richard A
Description: Student may contact the instructor or department for information.

EPSY 3119 Learning, Cognition, and Assessment
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDHD 5001; Meets CLE req of Social Science Core;
Instructor: Varma, Keisha
Description: Student may contact the instructor or department for information.

EPSY 3119 Learning, Cognition, and Assessment
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDHD 5001; Meets CLE req of Social Science Core;
Instructor: Varma, Keisha
Description: Student may contact the instructor or department for information.

EPSY 3133 Practicum: Service Learning, Psychology of Multiculturalism in Education
1-3 credit(s), max credits 3, 3 completions allowed; prereq [3132 or Concurrent registration is required (or allowed) in 3132], instr consent, enrollment in APECS minor;
Instructor: delMas, Robert Claude
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: Bjorndsottir, Audbjorg
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
EPSY 3301 Introduction to Educational Psychology
OPT No Aud, 3 credit(s);
Instructor: Varma,Sashank
Description: This course is an introduction to the theories, data, and methods that compose Educational Psychology. In this regard, it serves as a foundation for future coursework in education and psychology. The first third of the course will review those aspects of developmental psychology that are foundational for education. The second third will consider how cognitive psychology informs questions of learning, memory, knowledge, and reasoning. With this background in place, the final third of the course will focus on the classroom: on instruction, motivation, assessment, and individual differences. The class concludes with a lecture on how neuroscience informs education. Knowledge is gained not just by reading and listening, but also by “doing.” With this in mind, students will construct much of the knowledge they take away from this class. To take one example, in one assignment, they will participate in a classic experiment. They will analyze and write-up their data, and in this way gain a deep understanding of the empirical support for proven educational strategies. To take another example, in one project, students will gain experience with field methods: They will make field observations of children, and will interpret what they see with respect to the developmental theories studied in class. Through these assignments and projects, students will gain a deeper understanding of Educational Psychology.
TOPICS Expertise: Cognitive Development; Personal, Sexual, Social, and Moral Development; Group Differences; Behavioral Learning; Cognitive Learning; Problem Solving, Reasoning, and Transfer; Motivation; Instruction; Intelligence; Standardized Testing & Assessment; Neuroscience and Education.
Style: 33% Lecture, 33% Discussion, 33% Demonstration.
Grading: 10% Class participation; 15% Small assignments; 15% Child Observation project; 15% Lesson Analysis project; 15% Exam 1; 15% Exam 2; 15% Exam 3.
Exam Format: The exams are non-cumulative. The exam questions are “not” fill-in-the-blank or multiple-choice. Rather, they require short answers ranging from a sentence to a paragraph.

EPSY 3303 Educational Psychology Undergraduate Research Practicum
A-F only, 3 credit(s), max credits 6; prereq 3264, minor in applied psychology for educational/community settings;
Instructor: McComas, Jennifer
Description: Student may contact the instructor or department for information.

EPSY 4300 Special Topics in Educational Psychology:
Integrative Career / Life Planning
3 credit(s), max credits 3, 1 completion allowed;
Instructor: Hansen, Sunny Sundal
Description: Student may contact the instructor or department for information.

EPSY 4300 Special Topics in Educational Psychology:
Integrative Career / Life Planning
3 credit(s), max credits 3, 1 completion allowed;
Instructor: Hansen, Sunny Sundal
Description: Student may contact the instructor or department for information.

EPSY 4300 Special Topics in Educational Psychology:
Integrative Career / Life Planning
3 credit(s), max credits 3, 1 completion allowed;
Instructor: Hansen, Sunny Sundal
Description: Student may contact the instructor or department for information.

EPSY 4300 Special Topics in Educational Psychology:
Integrative Career / Life Planning
3 credit(s), max credits 3, 1 completion allowed;
Instructor: Hansen, Sunny Sundal
Description: Student may contact the instructor or department for information.

EPSY 5101 Intelligence and Creativity
A-F only, 3 credit(s);
Instructor: Bengston, Barbara J.
Description: Student may contact the instructor or department for information.

EPSY 5112 Knowing, Learning, and Thinking
A-F only, 4 credit(s);
Instructor: Tennyson, Robert D
Description: This course provides an introduction to the theory and practice of psychology in regards to the concepts of knowing, learning, and thinking. The overriding theme is the influence of psychological theories dealing with human cognition, with a focus on both historical and contemporary views and issues. The goal is to help the student acquire knowledge of learning theories and their applications. Objectives To acquire knowledge of educational foundations in learning philosophies and theories. Including the major theories of behaviorism, cognitive psychology, and constructivism. To develop an understanding of the application of learning theory to improvements in learning. To apply learning philosophy and theory to a self-defined learning environment. Requirements 1. Student Worksheets. To help students in applying information learned in an instructional sessions, student worksheets will be done directly during class. 15% of the final grade. 2. Statement of Learning Philosophy and Theory. The second is a written statement that includes both your philosophy of learning and theory of learning. Each student will make a presentation of his or her report during the last week of class. 30% of the final grade. 3. Selected Key Persons and Concepts. Preparation of a written definition of selected key persons and concepts in educational psychology. Students will present the concepts to the class with accompanying examples. 20% of final grade.
Style: 40% Lecture, 30% Discussion. student presentations
Grading: 20% final exam, 30% reports/papers, 15% special projects; 15% in-class presentation, 20% problem solving.
Exam Format: The final is a two-part examination: an oral presentation of his or her learning philosophy/theory. 15% of the final grade; a written exam of Key Persons and Key Concepts. 20% of the grade.

EPSY 5113 Psychology of Instruction and Technology
3 credit(s);
Instructor: Tennyson, Robert D
Description: Student may contact the instructor or department for information.

EPSY 5114 Psychology of Student Learning
A-F only, 3 credit(s);
Instructor: Pellegrini, Anthony D
Description: Student may contact the instructor or department for information.

EPSY 5141 Aggression in Schools
A-F only, 3 credit(s); prereq 5xxx course in [developmental or educational] 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. At the end of the course you will have a sample plan for a district. EPSY 5191 will be attractive to future and current educators, counselors and other interested parties concerned with the education of the gifted and talented. This course may also be used as part of the certification program in gifted education and talent development.

**Style:** 70% Discussion. researching information on the web

**Grading:** 60% reports/papers, 40% other evaluation. discussion questions

**Exam Format:** No exam

**EPSY 5200 Special Topics: Psychological Foundations: Mind, Brain, and Education**

3 credit(s); max credits 30, 30 completions allowed;

**Instructor:** Varma, Sashank

**Description:** Neuroscience has made rapid inroads into the social sciences over the past twenty years. People are increasingly interested in what neuroscience has to tell us about education. The proposed Special Topics course will expose CEHD students to this emerging interdisciplinary field. This course will be anchored by Blakemore and Frith’s (2005) textbook: The Learning Brain: Subtitle: Lessons for Education. This will provide a common knowledge base for students from different disciplinary backgrounds. Weekly readings will include empirical papers drawn from the psychological, neuroscience, and educational literatures. The papers will illuminate topics of greatest interest to education: mathematical thinking, reading, scientific reasoning, learning, intelligence, motivation, media comprehension, and social cognition? using the methodological tools of psychology and neuroscience. Students coming from an educational background will gain a better understanding of neuroscience methods and data, and what they can and cannot tell us about education. Those coming from psychological and neuroscience backgrounds will learn how their methods can be applied to more complex forms of cognition than are normally studied, and how the study of these phenomena broadens and enriches basic science.

**Style:** 20% Lecture, 20% Discussion, 60% Student Presentation.

The instructor will present background material relevant to the readings each week, which will be recent empirical papers. The majority of class time will be devoted to student presentations of these papers, and class discussion of their content.

**Grading:** 50% reports/papers, 35% in-class presentation, 15% class participation.

**Exam Format:** There are no exams for this course.

**EPSY 5223 Introduction to Performance Standard Setting Methods**

1 credit(s); prereq 5221;

**Instructor:** Rodriguez, Michael C.

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

**EPSY 5243 Principles and Methods of Evaluation**

3 credit(s); Credit will not be granted if credit has been received for: EDPA 5501;

**Instructor:** STAFF

**Description:** Introduction to program evaluation. Planning an evaluation study, collecting and analyzing information, reporting results; evaluation strategies; overview of the field of program evaluation.

**EPSY 5245 Advanced Survey Data Analysis for Categorical and Rating Scale Data**

1 credit(s); prereq 5244, 5261;

**Instructor:** Rodriguez, Michael C.

**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:** Everson, Michelle G

**Description:** This course is designed to provide an overview of introductory statistics. The topics to be covered in this course include graphing techniques, measures of center and spread, normal distributions, correlation, simple linear regression, sampling methods, experimental design, sampling distributions, and methods of statistical estimation and inference. Upon completion of this introductory course, students should be able to: (1) think critically about statistics used in popular magazines, newspapers, and journal articles, (2) apply the knowledge gained in the course to analyze simple statistics used in research, and (3) design a research study, use a statistical software package to analyze the data generated from this research study, and appropriately report the conclusions of this research study. Because this version will be conducted entirely online, it is important for all students to keep up with required readings and assignments. Students are also expected to be active participants in this course. Active participation includes asking and answering questions in assigned discussion groups, posting responses to assignments and discussion questions in discussion groups, and responding to the messages posted by other members of the class. Students will also be expected to use SPSS. A student-version of SPSS will be sold with the textbook, but this student version runs on PCs, not on Macs. Any student who uses a Mac may need to complete SPSS work at a computer lab on campus.

**Style:** 100% Web Based. Class involves a lot of discussion/small-group activities and independent learning activities

**Grading:** 18% final exam, 4% reports/papers, 36% special projects, 27% quizzes, 15% written homework. Special projects includes a class project and several small-group discussion assignments.

**Exam Format:** mostly short-answer questions

**EPSY 5261 Introductory Statistical Methods**

3 credit(s); Credit will not be granted if credit has been received for: EPSY 5231;

**Instructor:** Le, Laura Jean

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

**EPSY 5262 Intermediated Statistical Methods**

3 credit(s); prereq 3264 or 5261 or equiv;

**Instructor:** Everson, Michelle G

**Description:** This course continues where EPSY 5261 (Introductory Statistical Methods) ends. Together, these two courses provide an alternative to the sequence EPSY 8261-8262. It is assumed that students who are registered in EPSY 5262 have successfully completed EPSY 5261 or its equivalent. By the end of the course, students should be able to: (1) understand the basic ideas and types of experimental design and analysis of variance (ANOVA), (2) run and interpret analyses involving real data using SPSS statistical software, (3) decompose data based on different models, applying algebraic notation, (4) check assumptions for models and select appropriate models for data, and (5) complete an independent project where they design an experiment, gather data, analyze and interpret the data, and write up the results in a paper. The course is conducted entirely online and students who take this course will need access to SPSS software (beyond the student version used in EPSY 5261).

**Style:** 100% Web Based. A large component of the course is discussion/small-group assignments and independent learning activities

**Grading:** 19% final exam, 38% special projects, 28% quizzes, 15% written homework. Special projects consists of a class project and several group discussion assignments.

**Exam Format:** Mostly short answer questions

**EPSY 5271 Becoming a Teacher of Statistics**

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at [http://onestop.umn.edu](http://onestop.umn.edu). IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
EPSY 5612 Understanding of Academic Disabilities
A-F only, 3 credit(s); 
Instructor: Seifert Ph.D., Kathy
Description: Student may contact the instructor or department for information.

EPSY 5613 Foundations of Special Education I
A-F only, 3 credit(s); prereq Child development course, 5601 or equiv;
Instructor: Fautsch-Patridge, Terri
Description: Student may contact the instructor or department for information.

EPSY 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 Ph.D., Kathy
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 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: Schultiz, 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 grade 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) Johns and Lenski (2005) Improving Reading Strategies & Resources Dubuque, IA Kendall Hunt (2) McAnnally P.L., Rose S. & Quigley S. P. (1999) _Reading Practices with Deaf Learners_ Austin, TC: PRO-ED.
Style: 60% Lecture, 5% Film/Video, 20% Discussion, 5% Small Group Activities, 5% Student Presentation, 5% other evaluation. response to reading and research
Grading: 48% reports/papers, 20% special projects, 22% quizzes, 10% other evaluation.

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: Landrude, Sharon Lynn
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPSY 5657</td>
<td>Interventions for Social and Emotional Disabilities</td>
<td>Kelley, Mary Beth</td>
<td>The purpose of this two-semester sequence of Developmental Disabilities student teaching experiences is to provide student teachers with support and opportunities to demonstrate the following competencies from the MN Rules for Special Education: Developmental Disabilities. Student teaching provides an opportunity to demonstrate competencies in teaching students with developmental disabilities that are outlined by the Minnesota Department of Education Board of Teaching and the University of Minnesota as requirements for the teaching license.</td>
</tr>
<tr>
<td>EPSY 5681</td>
<td>Education of Infants, Toddlers, and Preschool Children with Disabilities: Methods and Materials</td>
<td>Krick, Kellie Margaret</td>
<td>Building on the information presented in the course Social and Interpersonal Characteristics of Students with Disabilities, this course will continue discussing how social and emotional disorders manifest themselves in classrooms and how teachers of students with emotional and behavioral disorders can respond in ways that further the inclusion of these students in regular education settings and curriculum. In addition, the implementation of procedural safeguards and of due process rules regarding the civil rights of students with emotional/behavioral disabilities is a focus. All of the activities will be situated in the contexts of functional analysis of behavior, reflective teacher/teaching practice, and understanding of diversity.</td>
</tr>
<tr>
<td>EPSY 5702</td>
<td>Practicum in Autism Spectrum Disorder</td>
<td>Reichle, Joe E</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EPSY 5703</td>
<td>Practicum in Applied Behavior Analysis</td>
<td>McComas, Jennifer</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EPSY 5751</td>
<td>Student Teaching: Deaf and Hard of Hearing 1-6 credit(s), max credits 10, 10 completions allowed; prereq instr consent</td>
<td>Paulson, Anna Regas</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EPSY 5752</td>
<td>Student Teaching: Learning Disabilities 3-5 credit(s), max credits 10, 10 completions allowed; prereq instr consent</td>
<td>Seifert PhD, Kathy</td>
<td>A higher level of understanding of specific learning disabilities will be the focus of this course. The transfer of theoretical knowledge to practical application learned throughout the students' program will be examined. Understanding of the role of the learning strategies specialist in resource and inclusive settings for students of elementary and secondary age is essential. Student teaching provides an opportunity to demonstrate competencies in teaching students with developmental disabilities that are outlined by the Minnesota Department of Education Board of Teaching and the University of Minnesota as requirements for the teaching license.</td>
</tr>
<tr>
<td>EPSY 5754</td>
<td>Student Teaching: Social and Emotional Disabilities 3-5 credit(s), max credits 8, 8 completions allowed; prereq instr consent</td>
<td>Kelley, Mary Beth</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>EPSY 5755</td>
<td>Student Teaching: Developmental Disabilities, Mild/Moderate 3-5 credit(s), max credits 6; prereq Completion of all licensure coursework, instr consent</td>
<td>Seifert PhD, Kathy</td>
<td>Provide student teachers with support and opportunities to demonstrate the following competencies from the MN Rules for Special Education: Developmental Disabilities. Student teaching provides an opportunity to demonstrate competencies in teaching students with developmental disabilities that are outlined by the Minnesota Department of Education Board of Teaching and the University of Minnesota as requirements for the teaching license.</td>
</tr>
<tr>
<td>EPSY 5756</td>
<td>Student Teaching: Developmental Disabilities, Moderate/Severe</td>
<td>Seifert PhD, Kathy</td>
<td>Provide student teachers with support and opportunities to demonstrate the following competencies from the MN Rules for Special Education: Developmental Disabilities. Student teaching provides an opportunity to demonstrate competencies in teaching students with developmental disabilities that are outlined by the Minnesota Department of Education Board of Teaching and the University of Minnesota as requirements for the teaching license.</td>
</tr>
<tr>
<td>EPSY 5761</td>
<td>Student Teaching in Early Childhood Special Education Settings for Children Aged Three to Five Years 3-5 credit(s), max credits 6; prereq Licensure candidate in Early Childhood/Early Childhood Licensure Program, completion of all other licensure requirements for ECSE, instr consent; course completion of Birth-3 student teaching should be completed after age 3-5 student teaching when possible</td>
<td>Johnson, LeAnne Denise</td>
<td>Students enrolled in this course are licensure candidates in the Early Childhood Special Education Licensure Program. This course fulfills requirements for the Early Childhood Special Education Age 3-5 portion of the Early Childhood Special Education license. Student teachers work closely with their cooperating teacher and University supervisor to design and implement appropriate programming for young children age 3-5 receiving special education services in preschool classrooms. A seminar accompanies this student teaching experience in which students engage in discussion and cooperative learning experiences. A small portion of the seminar utilizes a lecture format.</td>
</tr>
<tr>
<td>EPSY 5762</td>
<td>Student Teaching in Early Childhood Special Education for Children Aged Birth to Three Years 3-5 credit(s), max credits 6; prereq Licensure candidate in Early Childhood/Early Childhood Licensure Program, completion of all other licensure requirements for ECSE, instr consent; course completion of Birth-3 student teaching should be completed after age 3-5 student teaching when possible</td>
<td>Johnson, LeAnne Denise</td>
<td>Students enrolled in this course are licensure candidates in the Early Childhood Special Education Licensure Program. This course fulfills requirements for the Early Childhood Special Education Age Birth to 3 portion of the Early Childhood Special Education license. Student teachers work closely with their cooperating teacher and University supervisor to design and implement appropriate programming for young children from Birth to Age 3 who are receiving special education services. A seminar accompanies this student teaching experience in which students engage in discussion and cooperative learning experiences. A small portion of the seminar utilizes a lecture format.</td>
</tr>
<tr>
<td>EPSY 5765</td>
<td>Collaborative Family-School Relationships 2-3 credit(s), max credits 3, 1 completion allowed; prereq Honors senior or grad student</td>
<td>Seifert PhD, Kathy</td>
<td>Provide student teachers with support and opportunities to demonstrate the following competencies from the MN Rules for Special Education: Developmental Disabilities. Student teaching provides an opportunity to demonstrate competencies in teaching students with developmental disabilities that are outlined by the Minnesota Department of Education Board of Teaching and the University of Minnesota as requirements for the teaching license.</td>
</tr>
</tbody>
</table>
Instructor: Christenson,Sandra L.
Description: The theoretical and empirical bases for creating collaborative family-school-community relationships to enhance students' school success and development are described. Essential partnership variables to create a collaborative ethic between home, school, and community, and models/programs for grades K-12 are described. Specific strategies to address academic, social, and behavioral concerns for individual students as well as systems-level concerns, such as discipline and violence, are covered. Practical family-school partnership strategies for use by educational personnel (teachers, school psychologists, counselors, and administrators) to engage all families in school and learning are emphasized. This course addresses one of ten domains for competence as a school psychologist as specified in the "Blueprint." Additionally, the importance of local and national policy for establishing a shared responsibility between families and schools for students is emphasized. Promising strategies emphasize restructuring education to establish policies and practices based on a shared responsibility for educational outcomes. Course readings and assignments emphasize practical application of course content (i.e., the translation of theory and research into practice) and both are used to structure class discussion. Course format includes lecture and seminar discussion.

Style: 40% Lecture, 40% Discussion. Class presentations.
Grading: 20% reports/papers, 60% special projects, 20% class participation.

EPSY 5991 Independent Study in Educational Psychology
A-F only, 1-8 credit(s), max credits 20, 20 completions allowed; prereq instr consent;
Instructor: STAFF
Description: 

EPSY 8114 Seminar: Cognition and Learning
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Varma,Keisha
Description: In this course, you will examine issues related to technology-enhanced instruction from a learning sciences perspective. We will look at how research in developmental, cognitive and educational psychology informs the way that technology-enhanced support is designed and implemented. We will read research papers concerned with the design and implementation of technology-based innovations. Throughout the semester, students will design and revise a curricular project that effectively integrates technology. Throughout the course, students will work collaboratively to reflect on issues of technology integration, learning and cognition. Each class meeting will include at least 1 hour of work in the computer lab.

EPSY 8117 Writing Empirical Paper and Research/Grant Proposals in Education and Psychology
3 credit(s); prereq instr consent;
Instructor: McMaster,Kristen Lee
Description: Student may contact the instructor or department for information.

EPSY 8132 Personality Development and Socialization
3 credit(s); prereq Personality or child psych course;
Instructor: Burke,Caroline Anne
Description: Student may contact the instructor or department for information.

EPSY 8216 Seminar: Research Processes in Psychological Foundations of Education
A-F only, 3 credit(s); prereq [5216, admitted to doctoral program in psych foundations] or instr consent;
Instructor: Pellegrini,Anthony D
Description: Student may contact the instructor or department for information.

EPSY 8222 Advanced Measurement: Theory and Application
4 credit(s); prereq [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 8223 Test Score Equating Design and Analysis
1 credit(s); prereq 5221, 8222, 8262;
Instructor: Rodriguez,Michael C.
Description: Student may contact the instructor or department for information.

EPSY 8247 Advanced Interviewing and NVIVO
3 credit(s); prereq 5247 or qualitative course or instr consent;
Instructor: Lawrenz,Frances P
Description: Student may contact the instructor or department for information.

EPSY 8262 Statistical Methods II: Regression and the General Linear Model
3 credit(s); prereq 8260, 8261 or equiv;
Instructor: 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); prereq 8260, 8261 or equiv;
Instructor: Zieffler PhD,Andrew S
Description: Student may contact the instructor or department for information.

EPSY 8262 Statistical Methods II: Regression and the General Linear Model
3 credit(s); prereq 8260, 8261 or equiv;
Instructor: Long,Jeffrey D
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
EPSY 8265 Factor Analysis
3 credit(s); prereq 8262 or instr consent;
Instructor: Davenport Jr, Ernest C
Description: Student may contact the instructor or department for information.

EPSY 8266 Statistical Analysis Using Structural Equation Methods
3 credit(s); prereq 8263 or 8264;
Instructor: Maruyama, Geoffrey M
Description: Student may contact the instructor or department for information.

EPSY 8267 Applied Multivariate Analysis
3 credit(s); prereq [8261, 8262] or equiv, familiarity with matrix algebra, knowledge of a computerized statistics package;
Instructor: Davenport Jr, Ernest C
Description: Student may contact the instructor or department for information.

EPSY 8269 Matrix Algebra for Statistical Modeling
2 credit(s); prereq 8262 or equiv;
Instructor: Davenport Jr, Ernest C
Description: Student may contact the instructor or department for information.

EPSY 8290 Special Topics: Seminar in Psychological Foundations: Statistical Analysis of Longitudinal Data II
3 credit(s), max credits 15, 15 completions allowed; prereq instr consent;
Instructor: Long, Jeffrey D
Description: Student may contact the instructor or department for information.

EPSY 8295 Evaluation Problems
1-6 credit(s), max credits 24, 24 completions allowed; prereq 5243 or EdPA 5501, instr consent; Credit will not be granted if credit has been received for: EDPA 8595;
Instructor: King, Jean A
Description: Student may contact the instructor or department for information.

EPSY 8403 Social/Cultural Contexts: Counseling and Skills
A-F only, 3 credit(s); prereq Grad ed psy major with CSPP subprog or instr consent;
Instructor: Goh PhD, Michael P
Description: Student may contact the instructor or department for information.

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: Trotter-Mathison, Michelle Judith
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 completion allowed; prereq 8503 or instr consent;
Instructor: Skovholt, Thomas M
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 completions 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 completions 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 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: McMaster, Kristen Lee
Description: EPSY 8702 is the second core seminar for doctoral students in Educational Psychology Special Education Programs. The purpose of the seminar is twofold: (1) to develop expertise in the critical examination of literature addressing issues, problems, and practices related to individuals with special needs in educational and community settings, and (2) to examine the varying roles and responsibilities of academicians in the field of special education. Seminar activities will include an analysis of processes used to review the literature as a scholarly contribution to the field of special education and as an avenue for research and practices related to the education of students with special needs. The outcome of this seminar is the development of a literature review on a topic of interest to the scholar, which may be used to structure the pre-dissertation study, and may be appropriate for publication. Participants will...
also examine and articulate the responsibilities of an academian, with a focus on learning models and strategies. **Style:** 5% Lecture, 50% Discussion, 20% Small Group Activities, 20% Student Presentation, 5% Guest Speakers.

**EPSY 8708 Functional Behavior Assessment**
A-F only, 3 credit(s); prereq [Grad student, one [learning or psychology] course] or instr consent;  
**Instructor:** McComas, Jennifer  
**Description:** Student may contact the instructor or department for information.

**EPSY 8800 Special Topics in School Psychology**
2 credit(s), max credits 9, 9 completions allowed;  
**Instructor:** Burns, Matthew K  
**Description:** Student may contact the instructor or department for information.

**EPSY 8812 Assessment in School Psychology II: Intellectual and Social-Emotional Domains**
A-F only, 3 credit(s); prereq Grad ed psy major with school psy subprog or instr consent;  
**Instructor:** Hansen, Annie  
**Description:** Student may contact the instructor or department for information.

**EPSY 8813 Assessment Practicum in School Psychology**
A-F only, 2 credit(s), max credits 4; prereq 8821, grad ed psy major with school psy subprog or instr consent, concurrent enrollment 8811 or concurrent enrollment 8812;  
**Instructor:** Hansen, Annie  
**Description:** Student may contact the instructor or department for information.

**EPSY 8822 Research in School Psychology**
A-F only, 3 credit(s), max credits 6; prereq [[[8860, 8861, 5616]]] or equiv], grad ed psy major with school psy subprog or instr consent;  
**Instructor:** Ysseldyke, Jim  
**Description:** Student may contact the instructor or department for information.

**EPSY 8823 Ethics and Professional Standards in School Psychology**
A-F only, 3 credit(s); prereq 8821;  
**Instructor:** Ysseldyke, Jim  
**Description:** Student may contact the instructor or department for information.

**EPSY 8831 Practicum: School Psychological Services**
1-3 credit(s), max credits 6, 6 completions allowed; prereq Grad ed psy major with school psy subprog;  
**Instructor:** Hansen, Annie  
**Description:** Student may contact the instructor or department for information.

**EPSY 8832 Clinical/Community Practice in School Psychology**
1-3 credit(s), max credits 6, 6 completions allowed; prereq Grad ed psy major with school psy subprog;  
**Instructor:** Hansen, Annie  
**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; prereq 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 completions allowed; prereq Grad ed psy major with school psy subprog, instr consent;  
**Instructor:** Hansen, Annie  
**Description:** Student may contact the instructor or department for information.

**EPSY 8905 History and Systems of Psychology: Landmark Issues in Educational Psychology**
3 credit(s); prereq Ed psy PhD student;  
**Instructor:** McConnell, Phillip; Scott Rushton  
**Description:** Student may contact the instructor or department for information.

---

**Electrical and Computer Engineering 4-178 EE/CSci Building**

**EE 1 Refresher Course for Electrical Engineers**
A-F only, 0 credit(s); prereq [BSEE or BEE], pass EIT exam, four yrs elec eng experience;  
**Instructor:** Nordell, Daniel Edwin  
**Description:** This course is a review of electrical engineering fundamentals required to pass the National Council of Engineering Examiners Principles and Practice Examination in the discipline of Electrical Engineering. It is designed to aid the electrical engineer in preparation for the PE examination by presenting an organized review of material ordinarily contained in a college electrical engineering curriculum. Primary emphasis will be on problem solving with orientation as close as possible to the type of questions contained in the exam. Prerequisites: Completion of the Fundamentals of Engineering exam Electrical Engineering or equivalent degree 4 years electrical engineering experience  
**Style:** 75% Lecture, 25% Discussion.  
**Grading:** 100% successful completion of the FE exam

**EE 1 Refresher Course for Electrical Engineers**
A-F only, 0 credit(s); prereq [BSEE or BEE], pass EIT exam, four yrs elec eng experience;  
**Instructor:** Ernst, Thomas W  
**Description:** This course is a review of electrical engineering fundamentals required to pass the National Council of Engineering Examiners Principles and Practice Examination in the discipline of Electrical Engineering. It is designed to aid the electrical engineer in preparation for the PE examination by presenting an organized review of material ordinarily contained in a college electrical engineering curriculum. Primary emphasis will be on problem solving with orientation as close as possible to the type of questions contained in the exam. Prerequisites: Completion of the Fundamentals of Engineering exam Electrical Engineering or equivalent degree 4 years electrical engineering experience  
**Style:** 75% Lecture, 25% Discussion.  
**Grading:** 100% successful completion of the FE exam

**EE 1001 Introduction to Electrical and Computer Engineering**
S-N only, 1 credit(s); prereq 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); prereq MATH 1271 or MATH 1371;  
**Instructor:** STAFF  
**Description:** Student may contact the instructor or department for information.

**EE 2001 Introduction to Electronic and Electrical Circuits**
3 credit(s); prereq Phys 1302, Concurrent registration is required (or allowed) in is required in Math 2243, 2373, 2573;  
**Instructor:** Stadler, Bethanie J. Hills  
**Description:** Student may contact the instructor or department for information.
EE 2002 Introductory Circuits and Electronics Laboratory
1 credit(s); prereq 2001 or Concurrent registration is required (or allowed) in 2001;
Instructor: Rennolet, Charles Leon
Description: Student may contact the instructor or department for information.

EE 2006 Introductory Circuits Laboratory
0.5 credit(s);
Instructor: Rennolet, Charles Leon
Description: Student may contact the instructor or department for information.

EE 2011 Linear Systems and Circuits
3 credit(s); prereq 2001;
Instructor: Tran, Nang
Description: Student may contact the instructor or department for information.

EE 2301 Introduction to Digital System Design
4 credit(s); prereq MATH 1272 or MATH 1372 or MATH 1572;
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 2301 Introduction to Digital System Design
4 credit(s); prereq MATH 1272 or MATH 1372 or MATH 1572;
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 2301 Introduction to Digital System Design
4 credit(s); prereq MATH 1272 or MATH 1372 or MATH 1572;
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 2361 Introduction to Microcontrollers
4 credit(s); prereq 2301, [1301 or CSCI 1113 or CSCI 1901];
Instructor: STAFF
Description: Computer organization, assembly language programming, arithmetic/logical operations, parallel/serial input/output. Microprocessor/microcontroller interfacing: memory design, exception handling, interrupts, using special-purpose features such as A/D converters, fuzzy logic, DSP operations. Integral lab.
Style: 50% Lecture, 15% Discussion, 35% Laboratory.
Grading: 15% mid exam, 40% final exam, 15% quizzes, 20% laboratory evaluation, 10% problem solving.
Exam Format: Solve problems

EE 3005 Fundamentals of Electrical Engineering
4 credit(s); prereq Math 2243, Phys 1302; not for EE majors;
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 3006 Fundamentals of Electrical Engineering Laboratory
1 credit(s); prereq Concurrent enrollment in 3005 is allowed but not required;
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 3015 Signals and Systems
3 credit(s); prereq [2011, IT] or dept consent;
Instructor: Mahmoodi PhD, Abolghassem B
Description: Student may contact the instructor or department for information.

EE 3025 Statistical Methods in Electrical and Computer Engineering
3 credit(s); prereq [3015, IT] or instr approval;
Instructor: Jindal, Nihar
Description: Student may contact the instructor or department for information.

EE 3041 Industrial Assignment I
A-F only, 2 credit(s); prereq [EE or CompE upper div], enrolled in ECE co-op program;
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 3011 Circuits and Electronics Laboratory I
2 credit(s); prereq [2002, [3115 or Concurrent registration is required (or allowed) in 3115], IT] or dept consent;
Instructor: Mahmoodi, Abolghassem B
Description: Student may contact the instructor or department for information.

EE 3011 Circuits and Electronics Laboratory I
2 credit(s); prereq [2002, [3115 or Concurrent registration is required (or allowed) in 3115], IT] or dept consent;
Instructor: Kinney, Larry L
Description: Student may contact the instructor or department for information.

EE 3012 Circuits and Electronics Laboratory II
2 credit(s); prereq [3101 or IT or dept consent], attendance first day of class;
Instructor: Higman, Ted King
Description: Experiments in circuits and electronics; team design project.

EE 3012 Circuits and Electronics Laboratory II
2 credit(s); prereq [3101 or IT or dept consent], attendance first day of class;
Instructor: Robbins, William P
Description: Experiments in circuits and electronics; team design project.

EE 3115 Analog and Digital Electronics
4 credit(s); prereq [3015 or Concurrent registration is required (or allowed) in 3015], IT or dept consent;
Instructor: Gopinath, Anand
Description: Student may contact the instructor or department for information.

EE 3161 Semiconductor Devices
3 credit(s); prereq Upper div IV, IT, 2011, Phys 1302, Phys 2303 or Chem 1022;
Instructor: Oh, Sang-Hyun
Description: Student may contact the instructor or department for information.

EE 3601 Transmission Lines, Fields, and Waves
3 credit(s); prereq [2011, [Math 2243 or Math 2373 or Math 2573], [Phys 1302 or Phys 1402], IT] or dept consent;
Instructor: Jacobs, Heinrich Otto Heiko
Description: The goal of this course is to introduce basic concepts of transmission lines, electrostatic fields and electromagnetic waves, as well as applications related to such principles. This material is the basis of many applications that include RF/microwaves, optics, and magnetics. Students are expected to have the above math and physics perquisites as well as the first circuits course offered in the EE department. Course Content: The course will be divided into three parts: Transmission Lines, Static and Dynamic Fields, and Plane Waves and Radiation. Part I: Transmission Lines (Weeks 1-5) Distributed Circuits Time domain behavior of infinite and finite transmission lines Frequency domain behavior of infinite and finite length transmission lines Resonant matching Coupled line analysis Part II: Static and Dynamic Electric and Magnetic Fields (Weeks 6-11) Review of vector calculus Electrostatics: Capacitance calculations, Stored energy, Dielectric materials, Current flow, Continuity equation and Laplace and Poisson Equation solutions Magnetostatics: Biot-Savart Law, Ampere's Law, Inductance calculations, Stored energy, Magnetic materials, Vector potentials, and Boundary value problems Electromagnetic Fields Part III: Plane Waves and Radiation...

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
(Weeks 12-16) Plane Wave propagation: in lossy and lossless media, energy density, poynting’s vector, group velocity, and dispersion. Reflections of plane wave at metallic or dielectric boundaries and Brewster’s Angle Waveguide and Antenna structures.

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

**Grading:** 25% mid exam, 25% final exam, 25% problem solving, 25% other evaluation. Second exam during the semester.

**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 4161 Energy Conversion and Storage**
- 3 credit(s); prerequisite 3161 or instructor consent;
- Instructor: Imbertson, Paul Jay
- **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:** Georgiou, Tryphon T
- **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:** Ruden, Paul
- **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 4541 Digital Signal Processing**
- 3 credit(s); prerequisite [3015, 3025] or instructor consent;
- **Instructor:** Ottesen, Hal
- **Description:** Student may contact the instructor or department for information.

**EE 4609 Digital Signal Integrity**
- 3 credit(s); prerequisite 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 4701 Electric Drives**
- 3 credit(s); prerequisite 3015;
- **Instructor:** Imbertson, Paul Jay
- **Description:** Electric motors, motor drives, and control systems, using readily understandable Space-Vector teaching methods. Topics include: Rotational Mechanics; Magnetism; Power Electronic Drives; DC Motors; Permanent-Magnet Motors; Synchronous Motors; Induction Motors; and Motor Control.

**EE 4703 Electric Drives Laboratory**
- 1 credit(s); prerequisite 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 4951W Senior Design Project**
- 4 credit(s); prerequisite 3015, 3115, 3102, 3601, attendance first day of class; Meets CLE req of Writing Intensive;
- **Instructor:** Ernie, Douglas
- **Description:** Student may contact the instructor or department for information.

**EE 4970 Directed Study**
- 1-3 credit(s), max credits 3; prerequisite Cr ar [may be repeated for cr]; dept consent;
- **Instructor:** STAFF
- **Description:** Studies of approved projects, either theoretical or experimental.

**EE 4982V Senior Honors Project II**
- 2 credit(s); prerequisite 4981; Meets CLE req of Writing Intensive;
- **Instructor:** Lilja, David J
- **Description:** Student may contact the instructor or department for information.

**EE 5141 Introduction to Microsystems Technology**
- 4 credit(s); prerequisite [3161, 3601, IT grad student] or dept consent;
- **Instructor:** Talghader, Joseph John
- **Description:** Student may contact the instructor or department for information.

**EE 5141 Introduction to Microsystems Technology**
- 4 credit(s); prerequisite [3161, 3601, IT grad student] or dept consent;
- **Instructor:** Talghader, Joseph John
- **Description:** Student may contact the instructor or department for information.

**EE 5164 Semiconductor Properties and Devices II**
- 3 credit(s); prerequisite [5163, IT grad student] or dept consent;
- **Instructor:** Ruden, P Paul
- **Description:** Student may contact the instructor or department for information.

**EE 5164 Semiconductor Properties and Devices II**
- 3 credit(s); prerequisite [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); prerequisite [5171 or Concurrent registration is required (or allowed) in 5171], IT grad student] or dept consent;
- **Instructor:** Sapatnekar, Sachin Suresh
- **Description:** Student may contact the instructor or department for information.

**EE 5235 Robust Control System Design**
- 3 credit(s); prerequisite IT grad, 3015, 5231 or instructor consent;
Instructor: salapaka,murli
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: Sapatnekar,Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 5324 VLSI Design II
3 credit(s); prereq [5323, IT grad student] or dept consent ;
Instructor: Bazargan,Kia
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 5364 Advanced Computer Architecture
3 credit(s); prereq [[4363 or CSci 4203], IT grad student] or dept consent credit will not be granted if credit received for: 8365, CSci 8203;
Instructor: Zhai,Anastia Bingheng
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 ;
5501 recommended;
Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 5585 Data Compression
3 credit(s); prereq IT grad student or dept consent ;
Instructor: Kieffer,John C
Description: Student may contact the instructor or department for information.

EE 5601 Introduction to RF/Microwave Engineering
3 credit(s); prereq [3601, IT grad student] or dept consent ;
Instructor: Franklin,Rhonda R.
Description: Course focuses on use and performance of lumped circuit elements at RF frequencies as well as application of transmission line theory to planar and non-planar waveguiding structures. Network analysis and synthesis techniques are described for lumped and passive elements. Design topics include lumped circuit elements, resonators, power dividers, directional couplers, and filters.
Style: 100% Lecture.
Grading: 30% mid exam, 40% final exam, 10% special projects, 20% problem solving.
Exam Format: problem-solving

EE 5613 RF/Microwave Circuit Design Laboratory
2 credit(s); prereq [[5601 or Concurrent registration is required (or allowed) in 5601], IT grad student] or dept consent ;
Instructor: Franklin,Rhonda R.
Description: Student may contact the instructor or department for information.

EE 5621 Physical Optics
3 credit(s); prereq [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
Exam Format: Problem solving, patterned after homework, emphasizing physical concepts

EE 5622 Physical Optics Laboratory
1 credit(s); prereq [[5621 or Concurrent registration is required (or allowed) in 5621], IT grad student] or dept consent ;
Instructor: Leger,James Robert
Description: This course is designed to give a senior or graduate student a working knowledge of experimental optical techniques. It consists of a series of laboratory exercises that demonstrate topics in interferometry, diffraction theory, imaging, frequency domain descriptions of optical systems, coherence, speckle and fiber optics. The laboratory equipment is highly automated via CCD cameras and computers, simplifying data collection and producing improved accuracy. Emphasis is placed on optical techniques that can be used in a wide variety of experimental situations. The student is asked to keep a professional laboratory journal, similar to what would be used in industry. No other written work is required. The course grade is assigned based on this journal, an assessment of laboratory performance, and a final test. The final test can be either written or individual oral, based on a vote from the students attending. Knowledge of basic optical systems and Fourier analysis is helpful.
Style: 100% Laboratory.
Grading: 33% final exam, 33% laboratory evaluation, 33% other evaluation. Lab book
Exam Format: Written or oral, based on student vote

EE 5655 Magnetic Recording
3 credit(s); prereq IT grad student or dept consent ;
Instructor: Wang,Janping
Description: Student may contact the instructor or department for information.

EE 5705 Electric Drives in Sustainable Energy Systems
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 5940 Special Topics in Electrical Engineering I
1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Xiao,Weijun
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 completions 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 completions 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 completions allowed;
prereq Grad student, instr consent ;
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Parhi, Keshab K.
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Posbergh, Thomas Alfred
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Rennie, 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 completions allowed;
Instructor: Gopinath, Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
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 completions allowed;
Instructor: Talghader, Joseph John
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions 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 completions allowed;
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 completions allowed;
Instructor: Ruden, P Paul
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Stadler, Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
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 completions allowed;
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 completions allowed;
Instructor: Georgiou, Tryphon T
Description: Student may contact the instructor or department for information.
Instructor: Hubel, Allison  
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training  
S-N only, 1-2 credit(s), max credits 6, 3 completions 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 completions allowed; prereq Grad student, instr consent;  
Instructor: Franklin, Rhonda R.  
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training  
S-N only, 1-2 credit(s), max credits 6, 3 completions 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 completions allowed; prereq Grad student, instr consent;  
Instructor: Jindal, Nikhar  
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 completions 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 completions allowed; prereq Grad student, instr consent;  
Instructor: Kieffer, John C  
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training  
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent;  
Instructor: Kryukov, Elena  
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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq Grad student, instr consent;  
Instructor: Song, Zhiping  
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 completions 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 completions allowed; prereq Grad student, instr consent;  
Instructor: He, Bin  
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 completions 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 completions allowed; prereq Grad student, instr consent;  
Instructor: Kieffer, John C  
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training  
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent;  
Instructor: Kim, Chris H.  
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training  
S-N only, 1-2 credit(s), max credits 6, 3 completions 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 completions 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 completions 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 completions allowed; prereq Grad student, instr consent;  
Instructor: Wang, Jianping  
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent;
Instructor: Oh,Sang-Hyun
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed; prereq Grad student, instr consent;
Instructor: salapaka,murti v
Description: Student may contact the instructor or department for information.

EE 8215 Nonlinear Systems
3 credit(s); prereq instr consent;
Instructor: Georgiou,Tryphon T
Description: Student may contact the instructor or department for information.

EE 8337 Analog Circuits for Wire/Wireless Communications
A-F only, 3 credit(s); prereq 5333;
Instructor: Harjani,Ramesh
Description: Student may contact the instructor or department for information.

EE 8500 Seminar: Communications
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Jindal,Nihar
Description: Student may contact the instructor or department for information.

EE 8581 Detection and Estimation Theory
3 credit(s); prereq 5531 or instr consent;
Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 8660 Seminar: Magnetics
S-N only, 1 credit(s), max credits 3, 3 completions 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 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Imbertson,Paul Jay
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion 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 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Mouunes-Toussi,Farnaz
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Rennoe,Charles Leon
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Salapaka,Murti V
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Sapatnekar,Sachin Suresh
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Sapiro,Guillermo R
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
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 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Gopinath,Anand
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT 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 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Apra,Joseph Arvind
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Parhi,Keshab K.
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT 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 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT 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 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Ruden,P Paul
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Georgiou,Tryphon T
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Stadler,Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Higdon,Ted King
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion 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 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Mohsen,Mostafa
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Talgat,Joseph John
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Huppel,Allison
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Giannakis,Georgios B
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Bazargan,Kia
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent; Instructor: Roychowdhury,Jaijeet
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
**EE 8940 Special Investigations**
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

**EE 8940 Special Investigations**
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

**EE 8940 Special Investigations**
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
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 completion 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 completion 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 completion 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 completion 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 completion 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 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

**EE 8940 Special Investigations**
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

**EE 8940 Special Investigations**
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: Oh, Sang-Hyun
Description: Student may contact the instructor or department for information.

**EE 8940 Special Investigations**
1-3 credit(s), max credits 3, 1 completion allowed; prereq 1-3 cr [may be repeated for cr]; IT grad student or instr consent;
Instructor: salapaka, murti
Description: Student may contact the instructor or department for information.

**EE 8965 Plan C Project I**
3 credit(s); prereq Grad EE major;
Instructor: Imbertson, Paul Jay
Description: Student may contact the instructor or department for information.

**EE 8965 Plan C Project I**
3 credit(s); prereq Grad EE major;
Instructor: Ernie, Douglas
Description: Student may contact the instructor or department for information.

**EE 8965 Plan C Project I**
3 credit(s); prereq Grad EE major;
Instructor: Mounes-Toussi, Farnaz
Description: Student may contact the instructor or department for information.

**EE 8965 Plan C Project I**
3 credit(s); prereq Grad EE major;
Instructor: Gopinath, Anand
Description: Student may contact the instructor or department for information.

**EE 8965 Plan C Project I**
3 credit(s); prereq Grad EE major;
Instructor: Tewfik, Ahmed Hossam
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: Tewfik, Ahmed Hossam
Description: Student may contact the instructor or department for information.
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
3 credit(s); prereq Grad EE major;
Instructor: Parhi, 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
3 credit(s); prereq Grad EE major;
Instructor: Cohen, Philip I
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Ruden, P Paul
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: 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
3 credit(s); prereq Grad EE major;
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Kaveh, Mostafa
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Lilja, David J
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Mohan, Ned
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Talghader, Joseph John
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Campbell, Stephen A
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Hubel, Allison
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Kinney, Larry L
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Kieffer, John C
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Robbins, William P
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Sobelman, Gerald Edward
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Leger, James Robert
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Victoria, Randall H
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Giannakis, Georgios B
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Bazargan, Kia
Description: Student may contact the instructor or department for information.
for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Roychowdhury, Jaieeet
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: Oh, Sang-Hyun
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s); prereq Grad EE major;
Instructor: salapaka, murti v
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Imbertson, Paul Jay
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Ernie, Douglas
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Moumen, Tarek
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Moumen-Toussi, Farnaz
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Rennolet, Charles Leon
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Gopinath, Anand
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Tewfik, Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion 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 completion 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 completion 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 completion 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 completion 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 completion 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 completion 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 completion 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 completion 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 completion allowed; prereq EE grad student;
Instructor: Georgiou, Tryphon T
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Stanler, Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Higman, Ted King
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Kaveh, Mostafa
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Lilja, David J
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Mohan, Ned
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Talghader, Joseph John
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Campbell, Stephen A
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Hubel, Allison
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Kinney, Larry L
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Kieffer, John C
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Robbins, William P
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Sobelman, Gerald Edward
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Leger, James Robert
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: He, Bin
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Luo, Zhi-Quan
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Amin, Massoud
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Wang, Jianping
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Bazargan, Kia
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Roychowdhury, Jaijeet
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed; prereq EE grad student;
Instructor: salapaka, murti v
Description: Student may contact the instructor or department for information.

EE 8980 Graduate Seminar II
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Ebbini, Emad S
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

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
A-F only, 6 credit(s); prereq Jr or sr;
Instructor: Mc Neil MA,Mary Ann
Description: Successful completion of this course will make student eligible to take the National Registry for EMT(NREMT) test. 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.
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, 10% attendance, 10% class participation, 30% other evaluation. 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.

EHS 3312 Emergency Medical Technician
A-F only, 6 credit(s); prereq Jr or sr;
Instructor: Strom JD,Todd E. R.
Description: Successful completion of this course will make student eligible to take the National Registry for EMT(NREMT) test. 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.
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, 10% attendance, 10% class participation, 30% other evaluation. 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.

EHS 4999 Practicum
A-F only, 1-3 credit(s), max credits 9, 3 completions allowed; prereq EHS;
Instructor: Mc Neil MA,Mary Ann
Description: This course is designed as an “on the job” paid or volunteer experience with an EMS transport service or emergency department. Individuals arrange for 1-3 credits of experience. Available to students who have completed EHS 3312/EMT. It is the student's responsibility to arrange volunteer or paid position for this practicum. Approximately 60% of the course work should be clinical performance, 20% self-reflective journal and research/scholarly reading and reporting, 20% scholarly paper. Contact Mary Ann McNeil @ mcmel003@umn.edu for application/contract.
Style: 5% Discussion, 5% Student Presentation, 60% Service Learning. Student will meet with instructor several times throughout semester to discuss experience and present written work.
Grading: 25% reports/papers, 25% journal, 50% other evaluation. Student will receive an evaluation of performance from the site where they work/volunteer.
Exam Format: There is no formal didactic exam.

ENDO 5309 Advanced Clinical Endodontics
A-F only, 1-6 credit(s), max credits 6; prereq 5308;
Instructor: Baisden,Michael Kenneth
Description: Student may contact the instructor or department for information.

ENDO 5313 Advanced Endodontic Emergency
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 completion allowed; prereq 5329;
Instructor: McClanahan,Scott B
Description: Student may contact the instructor or department for information.

ENDO 5332 Review of cases
A-F only, 1 credit(s); prereq dept consent;
Instructor: McClanahan,Scott B
Description: Student may contact the instructor or department for information.

ENDO 5600 Endodontic Histopathology
S-N only, 1 credit(s), max credits 2, 1 completion allowed;
Instructor: Edmunds,Robert Sprague
Description: Student may contact the instructor or department for information.

ENDO 8005 Research in Endodontics
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq dept consent;
Instructor: Bowles,Walter Ray
Description: Student may contact the instructor or department for information.

ENDO 8313 Literature Review
A-F only, 2 credit(s); prereq 8312;
Instructor: Baisden,Michael Kenneth
Description: Student may contact the instructor or department for information.

ENDO 8332 Advanced Endodontic Lecture
A-F only, 1 credit(s); prereq 8322;
Instructor: Bowles,Walter Ray
Description: Student may contact the instructor or department for information.

English as a Second Language
101 Wesbrook Hall

ESL 111 Beginning Grammar
S-N only, 0 credit(s), 4 completions allowed; prereq Nonnative English speaker;
Instructor: STAFF
Description: The course helps students refine and extend their skills in using basic grammar. The focus is on understanding and using fundamental grammatical structures at the sentence level. It includes topics such as verb tenses, questions, comparison, and article usage. Students study the use of word forms and grammatical structures in readings and conversations, practice in controlled speaking and writing exercises, and communicate with their classmates and teacher about topics of interest.

Endodontics
15-209 MoosT

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ESL 121 Beginning Reading and Composition  
S-N only, 0 credits (s), 4 completions allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
**Description:** In this level 1 intensive reading and writing course for non-native speakers of English, students will improve reading comprehension by using strategies to identify the topic, main idea and details, adapted academic and general interest texts. Students will also choose books of interest to read for pleasure. In addition, students will develop informal and formal writing skills by writing weekly journal entries and four to five multi-draft papers of one or more paragraphs. In writing, students will work on developing content and organization as well as grammatical accuracy. Discussion and vocabulary development are included.  
**Exam Format:** Short answer

ESL 181 Beginning Integrated English  
S-N only, 0 credits (s), 3 completions allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
**Description:** The course focuses primarily on listening and speaking, with some reading, writing, and grammar. The text, which emphasizes high-frequency vocabulary and sentence patterns as they are used in real-life situations. Students will practice skills such as starting and maintaining a conversation and using ?echo? questions to check information. The course will emphasize the active use of language, as students share information with classmates, using new skills and vocabulary.

ESL 193 Pronunciation  
S-N only, 0 credits (s), 4 completions allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
**Description:** Course content and activities center around improving the production and perception of the sounds of the English language: individual sounds, rhythm, intonation, word and sentence stress, and linking phenomena in fast speech.

ESL 411 Intermediate Grammar  
S-N only, 0 credits (s), 4 completions allowed; prereq Non-native speaker of English;  
Instructor: STAFF  
**Description:** The course helps students build on their skills in basic grammar, adding to their range and accuracy at the paragraph level. Topics are likely to include the present perfect tense, gerunds and infinitives, modals, and comparative and superlative forms. Students study the use of word forms and grammatical structures in readings and conversations, practice in controlled speaking and writing assignments, and communicate with their classmates and teacher about topics of interest.

ESL 421 Intermediate Reading and Composition  
S-N only, 0 credits (s), 4 completions allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
**Description:** The purpose of this level 2 course is to help non-native speakers of English improve reading and writing skills in English. Students will read academic and non-academic texts about a variety of topics. Students will practice effective reading strategies as they read and discuss in class, and they will improve writing proficiency and strengthen grammar and vocabulary skills. In writing, students will work on topic sentences, paragraph and essay development and improving their accuracy in written English through informal writing, such as journals, and in more formal academic writing of multi-draft papers.

ESL 431 Intermediate Oral Skills  
S-N only, 0 credits (s), 4 completions allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
**Description:** The text is organized around broad themes like global business, art, states of consciousness, and addictive substances. The course emphasizes listening and speaking equally, and the two skills are integrated: students will talk about what they have listened to. In listening, students work on broad skills such as understanding main ideas and narrower skills like distinguishing between similar-sounding words. In speaking, they work on such skills as conversation, asking questions to confirm understanding, and expressing opinions. There is some attention to pronunciation and vocabulary development. The course helps students with general everyday English, broadcast English, and academic English.  
**Style:** 20% Lecture, 65% Discussion, 15% Laboratory.  
**Grading:** 25% special projects, 15% quizzes, 25% in-class presentation, 25% class participation, 10% laboratory evaluation.  
**Exam Format:** Short answers

ESL 601 TOEFL Preparation  
S-N only, 0 credits (s);  
Instructor: STAFF  
**Description:** Learn important test-taking skills in preparation for taking the internet-based Test of English as a Foreign Language (TOEFL iBT). Intensive review of the four skills assessed on this exam: reading, written expression, listening, and speaking. While this course focuses on the TOEFL iBT, the test taking skills and language review covered in this course would also be useful if you are preparing to take the paper-based TOEFL, IELTS, or MELAB exams.

ESL 611 Advanced Grammar  
S-N only, 0 credits (s); prereq Nonnative English speaker;  
Instructor: STAFF  
**Description:** Students review and solidify their understanding and control of English grammar in writing and speaking. The focus is on grammar in context at the multi-paragraph level. Topics include verb tenses, noun clauses, the passive voice, conditionals, and adverbial clauses. This knowledge is applied to development of revision and editing skills in the writing process. Written assignments and oral practice help students communicate their ideas more accurately and confidently.  
**Style:** 20% Lecture, 70% Discussion, 10% Laboratory.  
**Grading:** 20% final exam, 25% quizzes, 5% laboratory evaluation, 50% other evaluation.  
**Homework Exam Format:** Variety of formats

ESL 621 Advanced Reading Composition: The Written Word  
S-N only, 0 credits (s), 4 completions allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
**Description:** ESL 621 is a Level 3 intensive reading and writing course for non-native speakers of English. Students will practice reading skills including skimming, scanning, previewing, predicting content, making inferences, and distinguishing fact from opinion. Students will practice writing skills including paraphrasing and summarizing, editing and proofreading their own and others? work, and selecting and incorporating sources. Students will learn to employ a process approach to writing, and will progress from developing paragraphs to developing academic essays employing appropriate rhetorical modes.

ESL 631 Advanced Oral Skills  
S-N only, 0 credits (s), 4 completions allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
**Description:** The text is organized around themes of business, media studies, science, psychology, and art & design. Students will listen to academic lectures, take notes and discuss the lectures. The course also supplies help with the academic language to expect and use in these situations. There may be additional work with pronunciation. Students may do individual and group presentations on related topics.

ESL 711 English Grammar for Academic Purposes  
S-N only, 0 credits (s), 4 completions allowed; prereq Non-native speaker of English;  
Instructor: STAFF  
**Description:** This course focuses on increasing students? accuracy and range in English grammar. Topics that are especially relevant to academic writing, such as conciseness and smooth connections between sentences, are emphasized. Among the traditional topics of grammar, these are likely to be
 ESL 721 High Advanced Reading/Composition  
S-N only, 0 credit(s), 4 completions allowed; prereq Non-native speaker of English;  
Instructor: STAFF  
Description: ESL 721 is a Level 4 course for non-native speakers of English that builds and refines advanced-level reading, writing, and critical thinking skills including audience awareness and incorporating sources. In this course students will read essays and articles on a variety of topics from multiple sources. Students will improve their ability to identify main ideas and details, analyze and critique support, and respond with their own ideas in writing and discussion. Students will write three multi-draft papers: a personal experience essay, an argumentative essay, and a research report. Students will also develop informal writing skills.  
Exam Format: Variety  

 ESL 731 High Advanced Oral Skills  
S-N only, 0 credit(s), 4 completions allowed; prereq Non-native speaker of English;  
Instructor: STAFF  
Description: The textbook is organized around topics of anthropology, economics, literature and ecology and uses a variety of styles (social language, broadcast English, and academic English). This course focuses on increasing students’ listening and speaking skills including some pronunciation and academic note-taking. Students may do individual and group presentations on related topics.  

 ESL 781 Academic Writing  
S-N only, 0 credit(s), 30 completions allowed; prereq Nonnative English speaker;  
Instructor: STAFF  
Description: ESL 781 is a course for non-native speakers of English that teaches students how to recognize and use different patterns of development in writing (such as narration, exemplification, and cause and effect) to deepen and extend ideas in various types of academic writing tasks. Guided textual analyses of readings are used to stimulate classroom discussions of shared topics and to support developing writing skills through close observation of rhetorical strategies employed by accomplished writers. Typical assignments include argumentative essays, reviews or opinion essays, short research papers, and possible independent assignments based on the specific needs of individual students.  

 ESL 785 Speaking for Academic Purposes  
S-N only, 0 credit(s); prereq Non-native English speaker;  
Instructor: STAFF  
Description: Course activities focus on academic interactions such as lectures, presentations, seminar-style discussions, informal exchanges. Students will learn to present themselves professionally/socially in collegiate settings.  

 ESL 800 English for Science and Technology  
S-N only, 0 credit(s), 8 completions allowed; prereq Non-native speaker of English; contact Minnesota English Language Program for permission;  
Instructor: STAFF  
Description: English for formulating hypotheses, describing experiments, and presenting results; includes reading, writing, listening, and speaking activities based on scientific and technical English.  

 ESL 3101 Advanced English Grammar  
4 credit(s), max credits 8; prereq dept consent, non-native speaker of English, [C-TOEFL score 153-187 or equiv], ESL program consent;  
Instructor: STAFF  
Description: This course is designed for students already enrolled in degree programs at the University of Minnesota to work on polishing their English skills. Students review and solidify their understanding and control of English grammar in writing and speaking. The focus is on grammar in context at the multi-paragraph level. Topics include verb tenses, noun clauses, the passive voice, conditionals, and adjective clauses. This knowledge is applied to development of revision and editing skills in the writing process. Written assignments and oral practice help students communicate their ideas more accurately and confidently.  

 ESL 3102 English Grammar for Academic Purposes  
4 credit(s), max credits 8; prereq 3101, [Non-native speaker of English, [C-TOEFL score of at least 190 or equiv], dept consent;  
Instructor: STAFF  
Description: This course is designed for students already enrolled in degree programs at the University of Minnesota to work on polishing their English skills and builds on the concepts covered in ESL 3101. This course focuses on increasing students’ accuracy and range in English grammar. Topics that are especially relevant to academic writing, such as conciseness and smooth connections between sentences, are emphasized. Among the traditional topics of grammar, these are likely to be included: subordination, coordination, and transition expressions; tense, aspect, and associated adverbials; gerunds, infinitives, and other types of complementation; and lexical grammar—the grammar associated with individual words. Activities and regular assignments improve students’ ability to analyze grammar, including their own mistakes, and to use grammar more effectively.  

 ESL 3201 Advanced English Reading and Composition  
5 credit(s), max credits 10; prereq Non-native speaker of English, [iBT score of at least 53-67 or equiv], dept consent;  
Instructor: STAFF  
Description: This is an intensive reading and writing course for non-native speakers of English who are studying in degree programs at the University of Minnesota. Students will practice reading skills including skimming, scanning, previewing, predicting content, making inferences, and distinguishing fact from opinion. Students will practice writing skills including paraphrasing and summarizing, editing and proofreading their own and others’ work, and selecting and incorporating sources. Students will learn to employ a process approach to writing, and will progress from developing paragraphs to developing academic essays employing appropriate rhetorical modes.  

 ESL 3202 Academic Reading and Composition  
5 credit(s), max credits 10; prereq 3201, Non-native speaker of English, [iBT score of at least 68 or equiv], dept consent;  
Instructor: STAFF  
Description: This is a course for non-native speakers of English who are in university degree programs that builds and refines advanced-level reading, writing, and critical thinking skills including audience awareness and incorporating sources. In this course students will read essays and articles on a variety of topics from multiple sources. Students will improve their ability to identify main ideas and details, analyze and critique support, and respond with their own ideas in writing and discussion. Students will write three multi-draft papers: a personal experience essay, an argumentative essay, and a research report. Students will also develop informal writing skills.  

 ESL 3302 Writing for Academic Purposes  
4 credit(s), max credits 8; prereq 3202, non-native speaker of English, [C-TOEFL score of at least 190 or equiv], dept consent;  
Instructor: STAFF  
Description: This course is designed for non-native speakers of English who are in university degree programs that builds and refines advanced-level reading, writing, and critical thinking skills including audience awareness and incorporating sources. In this course students will read essays and articles on a variety of
ENGL 1172 The Story of King Arthur
A-F only, 3 credit(s); Meets CLE req of Literature Core; Instructor: Krug, Rebecca L
Description: Of all the stories familiar to the western world, few have exerted a greater influence on literary traditions than the legend of King Arthur and his Round Table. In this course we will study adaptations of the legend in order to understand how literary writers and their readers remade the story to fit specific, historical circumstances. We will read several novels among them, T. H. White's The Once and Future King, Mark Twain's Connecticut Yankee in King Arthur's Court, Marion Zimmer Bradley's Mists of Avalon and we will also study alliterative poems such as Sir Gawain and the Green Knight, modernist poems, prose narratives that read like chronicles (histories) such as Malory's Death of Arthur, and short tales. We will explore the reasons different literary genres were employed at different times and consider how formal characteristics of these genres influence our experience of narrative. This course emphasizes the central role that literature plays in shaping our world. Students in the course will engage in close analysis of written literary language in order to discover the ways that language shapes narrative. We attend to the differences in language use by poets and prose writers, by contemporary writers and medieval ones, and by writers who believe in the story of Arthur as reality and those who treat it as literary fiction. Our discussions of Arthurian literature in the course depend on attention to the different kinds of writing that Arthurian authors have used (novels, poems, chronicles) and to differences in literary technique within these genres. Further, we study these works in social, geographical, and historical contexts. We consider, for example, the different visions of nineteenth-century America in Connecticut Yankee and Malory's representation of chivalric action in late medieval England.

ENGL 1501W Literature of Public Life
A-F only, 4 credit(s); prereq credit will not be granted if credit already received for: ENGL 1501; Meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: STAFF
Description: How has American literature addressed what it means to be a citizen? English 1501 examines literature written with the intent to leave an impression: works that have stunned, mesmerized, stimulated, and galvanized the American public. The course is dialectical, setting diverse works against one another to form a dialogue that extends across chronological, geographic, and racial boundaries. "Literature" is defined broadly to include novels, speeches, essays, testimonies, sermons, plays, music, photography, and film. Recent readings have included Uncle Tom's Cabin, Maggie: A Girl of the Streets, The Souls of Black Folk, Twilight: Los Angeles, 1992, and Nickel and Dimed: On (Not) Getting By in America. This course doesn't sit on the shelf: it will ask students to examine and engage with the world around them.

ENGL 1701 Modern Fiction
3 credit(s); Credit will not be granted if credit has been received for: ENGL 1701H; Meets CLE req of Literature Core;
ENGL 3001V Honors: Textual Analysis, Methods
A-F only, 4 credit(s); prereq Honors, [English major or minor or approved BIS or IDIM program with English area] credit will not be granted if credit already received for: ENGL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001W; Meets CLE req of Writing Intensive; Instructor: Sugnet, Charles J

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

ENGL 3001W Textual Analysis: Methods
A-F only, 4 credit(s); prereq English major or minor or premajor or BIS/IDIM-English credit will not be granted if credit already received for: ENGL 3001, 3801; Credit will not be granted if credit has been received for: ENGL 3001V; Meets CLE req of Writing Intensive; Instructor: Johnson McGarry, PhD, Elizabeth M

Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. ENGL 3001W gives the interested student an exploration of literature through the last several centuries and a foundation in the practice of techniques of literary study. The course also provides an introduction to some major trends in contemporary criticism, as well as to the terminology that critics and scholars use to describe the forms and styles of literary works. In this course, you will read texts in poetry, fiction, and drama, with an emphasis on poetry. Each lesson calls for writing either informal paragraphs or formal literary essays using argument, evidence, and documentation. This course satisfies a writing intensive requirement. (Although ENGL 3001W is a required course for all B.A. majors and minors in English, the English Dept. requires that majors take it in the classroom, not through ODL.) When we read literature, we read for pleasure, for moral uplift, and for insight into society and ourselves. When we study literature, we ask many questions about it: How does the writer engage us? Why does one story move us more than another? How does the writer make us feel as we do? How does poetry work differently than prose? Many more questions, mostly hows and whys, come to us as we study the art that is literature. As we ask these questions, we come to understand that no work of literature springs to life through pure inspiration. Writing is truly 90% perspiration! Why does a writer choose these words and not those or this kind of sentence and not that? How does this work relate to others like it? Why do we care about a character? How does the plot engage us? How does the work make us feel? How does it connect with the world it comes from? These are some of the questions we seek to answer, and this is the course that gives you the skills to analyze individual novels, plays, and poems, to compare and classify works and authors, to examine the contexts in which people write and read, and to discuss the nature of literary interpretation. Just as a carpenter can appreciate the structure of a house on more levels than as a dwelling, a student of literature can appreciate a story on more levels than as a tale, understanding the ways in which language, both literal and figurative, is used by poets, dramatists, and novelists. You will see beyond the surface meaning of a poem, play, or story to its metaphoric and symbolic levels and appreciate how the writers have constructed their works with these multiple layers. By deepening your abilities to analyze and interpret literature, you will come to appreciate characteristics of the literature of many different cultures and times.

Style: 100% Web Based.
Grading: --Course Completion Calendar (ungraded but required)
--Written exercises in each lesson (49%) --4 oral recordings (5%)
--6 short essays (33.5%) --A final proposal and formal essay (12.5%)

Exam Format: There are no exams.

ENGL 3002 Modern Literary Criticism and Theory
3 credit(s); prereq credit will not be granted if credit already received for: ENGL 3802; Credit will not be granted if credit has been received for: ENGL 3002H; Instructor: Ismail, Qadri M

Description: Theory is about thinking in the abstract. Or, in other words, about the usefulness of concepts. This class will focus on understanding some concepts critical to the study of literature. Some - like plot, character, narrative - are very old. Others - like the subject, agency, class, history, culture, literature itself - emerged with the enlightenment. Still others - like the unconscious, text, discourse, interpellation, difference - emerged in opposition to the concepts of the enlightenment. We will examine as many as possible, but the focus of the class will be on the cardinal categories of what has become known as post-structuralism. We will read Althusser, Aristotle, Barthes, Chatterjee, Derrida, Foucault, Freud, Hegel, Nietzsche, Spivak, and others.

ENGL 3002 Modern Literary Criticism and Theory
3 credit(s); prereq credit will not be granted if credit already received for: ENGL 3802; Credit will not be granted if credit has been received for: ENGL 3002H; Instructor: Farber, Lianna

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

ENGL 3002H Honors: Modern Literary Criticism and Theory
3 credit(s); prereq Honors or instr consent credit will not be granted if credit already received for: ENGL 3802; Credit will not be granted if credit has been received for: ENGL 3002; Instructor: Brown, Tony C.

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

ENGL 3003W Historical Survey of British Literatures I
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3003; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive; Instructor: STAFF

Description: This course, the first in the Survey of British Literature series, introduces students to the literature of the British Isles from the Anglo-Saxon period to the eighteenth century. This broad sweep through time covers the Medieval period, the Renaissance (or, Early Modern Age), Civil Wars, Restoration, and the Enlightenment and provides a fascinating variety of works in a multitude of genres including poetry, drama, plays, novels, essays, autobiography, and speeches. Students will read authors such as Milton, Chaucer, Spenser, Marlowe, and DeFoe, as well as lesser-known writers, thus gaining a more complete understanding of the literature of these periods. Because artistic expression is affected and informed by historical circumstances, texts are placed within their historical moments and considered in terms of their social, political, biographical, and economical contexts and in terms of the connected features of the texts to their culture in order to gain a greater understanding of both. This course is demanding in its reading and writing requirements, but the variety and complexity of human experiences presented here affords great opportunity for stimulating discussion and thoughtful writing.

ENGL 3003W Historical Survey of British Literatures I
4 credit(s); prereq credit will not be granted if credit already received for: ENGL 3003; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive; Instructor: McNaron, Toni A

Description: Engl 3003W is a two-semester look at English poetry and prose from its beginning into the 20th century. It
focuses on works written between the Middle Ages and the end of the 18th century. You may have enrolled in this course as the first step toward studying English writers, working into modern times, or you may want to study earlier centuries in order to gain a historical perspective on more recent literature. Either way, I want you to enjoy the experience, considering at every stage the ways in which early literature is still relevant to us in the present. This course is available in a choice of two formats. You may take the course either by submitting all of your assignments as print documents OR by submitting your assignments as a combination of print answers and e-mail answers. There are distinct advantages attendant upon each option, so you will want to pick the one that seems more interesting or compatible to you. When you submit the first assignment, you will need to tell me (in a note) which option you have chosen. You may not change your option once you have made your initial choice. You will find several questions in each written assignment. You will not submit answers to all of these questions. For some lessons: you may choose which questions to answer; you may choose which question you do not want to answer; or I will specify which question can be ignored. If the choice is yours, be sure to indicate at the beginning of your submission which question you are not answering. (Though you are not required to do so, feel free to submit answers to all questions asked. I will gladly read any work you send me.) Web-enhanced option: The Web-enhanced format combines regular assignments with online and multimedia options. During the course of completing the 10 lessons in this course, you will conduct various research projects and complete some web-based assignments by using the Internet. The total amount of work expected of students who choose the Web-enhanced option will not exceed that of students who prefer to take the course in the printed format. I hope that combining older with newer approaches to this fascinating material will allow you to expand your knowledge of the writers and issues even as it also encourages you to become rather more interactive than is usually the case with distance and independent learning situations. Print-based option: The amount of work expected of students who choose this option is similar to that of students who choose the Web-enhanced version. In both cases, there are 10 assignments and one exam. The virtual office hours are not available to students who choose this option. I am, however, available to you by e-mail at mcnar001@umn.edu.

**Style:** Printed, correspondence section  
**Grading:** 20% final exam, 80% written homework.
**Exam Format:** Open-book, unproctored exam.

**ENGL 3004W Historical Survey of British Literatures II**  
4 credit(s); prerequisite will not be granted if credit already received for: ENGL 3004; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive; Instructor: Hirsch, Gordon D  
**Description:** Student may contact the instructor or department for information.

**ENGL 3004W Historical Survey of British Literatures II**  
4 credit(s); prerequisite will not be granted if credit already received for: ENGL 3004; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive; Instructor: McNaron, Tony A  
**Description:** Eng. 3004W covers the period from the late eighteenth century to recent times. You may have enrolled in this course after having taken Eng. 3003W, or you may want simply to read such major writers as William Wordsworth, John Keats, Charles Dickens, Alfred Tennyson, Elizabeth Barrett Browning and Robert Browning, D. H. Lawrence, Virginia Woolf, Joseph Conrad, T. S. Eliot, and W. H. Auden, as well as some of their contemporaries. Either way, you are encouraged to enjoy the experience, considering at every stage the ways in which this literature is relevant to us today. The Assignments: Each written assignment has several questions but you will not have to submit answers to all of them. For some lessons, you may choose which questions to answer. For some lessons, you may choose which question you do not want to answer. For some lessons, the instructor will specify which question can be ignored. If the choice is yours, be sure to indicate at the beginning of your submission which question you are not answering. (Though you are not required to do so, feel free to submit answers to all questions asked in a given lesson if you are so inclined. The instructor will gladly read any work you submit.) It is hoped that combining older with newer approaches to this fascinating material will allow you to expand your knowledge of the writers and issues even as it also encourages you to become rather more interactive than is usually the case with distance and independent learning situations. Please see the downloadable syllabus for more information. Instructor e-mail: mcnar001@umn.edu.

**Style:** Printed, correspondence section.  
**Grading:** 20% final exam, 80% written homework.
**Exam Format:** Open-book, take-home exam.

**ENGL 3005V Honors: Survey of American Literature I**  
4 credit(s); prerequisite Honors or instr consent credit will not be granted if credit already received for: EngL 3005; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Griffin PhD, Edward M  
**Description:** In English 3005V, you enter the wacky world of early American studies. One of my graduate students invented the phrase after I sent her to Wilson Library’s microfilm rooms with assignments she could complete only by plunging into the documents she found on microfiche in the Early American Imprint Series?also known as ?The Evans Bibliography.? Later, she surfaced to announce that although she had expected a wasteland of dry, stupefyingly boring texts, she had discovered a virtually unexplored world of wacky writing wonderful in its odd fashion: pirates, soldiers, spies, revolutions, dark nights of the soul, invasions, war and peace, politics, captures and escapes, and what we rather casually call religious fanatics. These stories have defined the nation and continue to do so during the 21st century. Because English 3005V is an honors course, I shall give you the same opportunity that I give graduate students: conducting serious primary research into material few others will have read during the past 400 years. You have an advantage, however, over the student who coined the ?wacky? phrase: Evans is now digitized and available via computer. You can do much of your research on your computer. This is the first of two courses comprising the historical survey of American literature. Like all surveys, these have a steady diet of reading, I envision three formal writing assignments and a final. In 3005 we study the literature of British North America written in English during the 17th and 18th centuries along with the literature of the early national period through the 19th century to the American Civil War (1860-65). The English Department also offers English 3006W, which investigates significant works written by Americans from the latter third of the 19th century through the 20th century. English 3005V covers more historical ground?first European contact to approximately 1860?and the most unfamiliar ground: the age of exploration, discovery, and European immigration, the American Revolution, the early national period, and the upsurge of American literature preceding the Civil War. It covers the most unfamiliar literary territory, at the outset necessarily emphasizing non-fictional prose (autobiography, biography, history, political and religious discourse, public essays and private letters), verse, and transcriptions in writing of oral performances, along with the more familiar form of the novel (which in the USA has features differing from those in Britain.) We take a literary approach to texts often considered extra-literary or non-literary; hence, 3005V will rather sternly test your expectations about what "literature" is or should be. The approach is dialectical, setting texts and arguments against each other to exemplify different sides of significant debates. The basic premise is that North America’s imaginative writings have always been multiple, plural, and that students should see both sides of the many
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 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010.

**ENGL 3020 Studies in Narrative: Science Fiction and Fantasy**
A-F only, 3 credit(s); max credits 9, 3 completions allowed; Credit will not be granted if credit has been received for: ENGL 5020; Instructor: Scheid,Andrew
Description: This course will explore the relationships between his diverse works and his perspective on the writer, the man, and his body of works, considering him as both a creator and creation of his culture and ours. Attention will be paid to historical context as well as Shakespeare's continuing, contemporary social relevance. Students will develop a variety of critical reading and writing skills and strategies in order to respond thoughtfully and effectively in discussions and their writing. This course will clarify the sometimes challenging and archaic language of Shakespeare's writing while paying attention to recurring themes such as representations of beauty, marriage and death in order to explore the relationships between his diverse works and history.
Style: 50% Lecture, 50% Discussion.
Grading: 70% reports/papers, 20% in-class presentation, 10% class participation.

**ENGL 3070 Studies in Literary and Cultural Modes: Classics of the London Metropolis**
A-F only, 3 credit(s); prereq honors student; Instructor: Cucullu,Lois B
Description: This combined undergraduate/graduate class will focus on the reading and discussion of children's literature -- on stories and novels rather than picture books or educational materials. We'll begin with fairy tales, then discuss some of the classic novels (such as Peter Pan, The Secret Garden, and The Wizard of Oz) and work our way toward contemporary American literature for young adults, discussing the ways in which literature for children reveals changing ideas about what children are, and how they interact with -- and eventually enter -- the adult world. Assignments will include one presentation and two essays.

**ENGL 3020H Studies in Narrative: Children's Literature**
A-F only, 3 credit(s); prereq honors; Instructor: Schumacher,Julie
Description: This course will examine 19th and early 20th century London as a site of modernity in order to understand how this center of commerce and empire came to function in the British imaginary. Among the media and material culture that will occupy us are the mapping of the city whether by Boz, the ethnographer Henry Mayhew, or Bram Stoker's less savory Dracula; the many technological innovations of the century (railroads, photography, electrification, typewriter, phonograph, telegraph); the display industry and popular entertainment; and the classifications of the indigenous and "plant underbelly" of the metropolis (criminals, prostitutes, primitives, and the poor) alongside similar classifying practices in the Empire at large.

**ENGL 3070H Honors: Shakespeare**
A-F only, 3 credit(s); prereq Honors or instr consent credit will not be granted if credit already received for: ENGL 3007, 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core; Instructor: Griffin PhD,Edward M
Description: Student may contact the instructor or department for information.

**ENGL 3007H Shakespeare**
A-F only, 3 credit(s); prerequisite credit will not be granted if credit already received for: ENG L 3807; Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature Core; Instructor: Elfenbein,Andrew
Description: William Shakespeare: poet, playwright, historian, and source of passionate debate; his cultural importance is the least controversial of the Bard of Avon's qualities. Often called the first 'psychological' writer because of his keen analysis of human motives and emotions, Shakespeare's writings and person provide material for endless study. This course will provide intermediate readers of Shakespeare with a new perspective on the writer, the man, and his body of works, considering him as both a creator and creation of his culture and ours. Attention will be paid to historical context as well as Shakespeare's continuing, contemporary social relevance. Students will develop a variety of critical reading and writing skills and strategies in order to respond thoughtfully and effectively in discussions and their writing. This course will clarify the sometimes challenging and archaic language of Shakespeare's writing while paying attention to recurring themes such as representations of beauty, marriage and death in order to explore the relationships between his diverse works and history.
Style: 25% Lecture, 75% Discussion.
Grading: 70% reports/papers, 20% in-class presentation, 10% class participation.

**ENGL 3027W The Essay**
4 credit(s); Meets CLE req of Writing Intensive; Instructor: STAFF
Description: This is a course for students ready to face more challenging assignments and deepen their comfort and skill with writing. The instructor helps the student develop more sophisticated research strategies and experiment with more creative stylistic choices. Assignments might include autobiographies, critical comparisons, reviews of articles or books, cultural analyses, persuasive essays, and annotated bibliographies. Students in this course learn to: Generate topics and develop essays with greater independence than they exercised in freshman composition. Write for multiple audiences -- academic and non-academic -- making appropriate decisions about content, rhetoric, structure, vocabulary, style, and format. Write creative non-fiction and other genres incorporating complex description and analysis. Analyze the conventions and styles of writing in their major field. Experiment with new and more sophisticated writing strategies and styles.

**ENGL 3070 Studies in Literary and Cultural Modes: Classics of Literary Criticism**
3 credit(s), max credits 9, 3 completions allowed; Instructor: Clayton,Tom
Description: This course will provide students with a basic overview of fantasy and science fiction literature, beginning with Mary Shelley's Frankenstein and ending with an examination of some of the current trends in these literatures. In addition to covering major works and authors important to the development of these literatures, this course will also introduce ways of theorizing fantasy and science fiction to give students the framework necessary to think critically about the works they are reading.
Style: 100% Web Based.
Grading: 14 Weekly Discussions -First Essay (900-1000 words) -Final Essay: proposal (up to 300 words), outline/thesis statement (640-1600 words), and essay (2700-3200 words) -6 Quizzes (5 best scores count towards your grade) -Group Project

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Bierce's Devil's Dictionary, "An Occurrence at Owl Creek Bridge," and selected other works; Crane's collections of poems, The Black Riders and War Is Kind; and extracts and selections from the wit and humor of Wilde. Bierce defines Cynic as "A blackguard whose faulty vision sees things as they are, not as they ought to be." The three range characteristically from the skeptical to the sardonic, but their concern with the human condition is far broader, and they write satire partly in the spirit of Byron's Don Juan's "If I laugh at any mortal thing, 'Tis that I may not weep."

Style: 30% Lecture, 10% Film/Video, 45% Discussion, 15% Small Group Activities. Distribution of time is bound to vary somewhat from class to class.

Grading: 15% mid exam, 15% quizzes, 35% additional semester exams, 25% reflection paper, 10% in-class presentation. 3 exams, the third 20%. The papers will be analytical, not open-ended "reflection."

Exam Format: Some objective questions, but mostly analysis and essay.

ENG 3090 General Topics: Probing the Social Text
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Messer-Davidow,Ellen
Description: Student may contact the instructor or department for information.

ENG 3090 General Topics: Origins of English Words
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Liberman,Anatoly
Description: Student may contact the instructor or department for information.

ENG 3090 General Topics: Origins of English Words
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Liberman,Anatoly
Description: Student may contact the instructor or department for information.

ENG 3090 General Topics: Origins of English Words
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Liberman,Anatoly
Description: Student may contact the instructor or department for information.

ENG 3090 General Topics: Environmental Imagination in 19th-Century America
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Philippin,Daniel J
Description: Student may contact the instructor or department for information.

ENG 3090 General Topics: The Exotic & the Savage
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Brown,Tony C.
Description: By combining a major topic of literary history with one of intellectual history, the course will develop a critical understanding of European representations of non-European peoples in relation to one of the central events of modern literary history: the emergence of the novel in the eighteenth century. Two primary objectives will facilitate our reaching this aim. First we will address the emergence of the novel in the eighteenth century; we will identify what a novel is, why it appears at this time and what this means. Second we will analyze the way in which Europe’s "others" are spoken of in the period, inside and outside the new genre of the novel. By the end of the course students will fully appreciate firstly the novel as a genre and secondly the knowledge of and representation of the earth’s far-off places and their inhabitants in the eighteenth century.

ENG 3090 General Topics: Varieties of Religious XP in Early Modern Britain
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Matar,Nabil I
Description:

ENG 3101 Survey of Medieval English Literature
A-F only, 3 credit(s);
Instructor: Krug,Rebecca L
Description: In this course we study literary works from the Middle Ages. Representative authors read may include Chaucer, the anonymous Gawain-poet, Margery Kempe, Julian of Norwich, and the anonymous authors of the morality and cycle plays. The course concentrates on formal elements of the literature and pays special attention to the language of the works under consideration, some of which will be read in the original language (Middle English). Students do not need prior training in the language but should be open to working on pronunciation and reading. In the course we attend to historical, literary, and theoretical concerns. Library research, individual and group projects, quizzes, and in-class writing are important components of the course. Active class participation is required and attendance (taken daily) is mandatory. Students will write interpretive essays and will take several exams.

ENG 3231 American Drama
3 credit(s); Credit will not be granted if credit has been received for: ENGL 3231H;
Instructor: Lee,Josephine D
Description: This course will survey drama written in the United States from Royall Tyler's The Contrast (1787) to the present. Plays will include works by Eugene O'Neill, Sam Shepard, Susan Glaspell, Suzan Lori-Parks, and Jose Rivera. We will focus on central American themes such as republicanism, civic virtue, individualism, sentimentality, and consumerism as well as distinctive theatrical forms such as melodrama, minstrelsy, and naturalism. Active participation will be required.

Style: 50% Lecture. 50% Discussion.
Grading: 50% reports/papers, 10% attendance, 25% reflection paper, 15% in-class presentation.

ENG 3300 Multicultural American Literatures and Cultures: North American Imperialisms & Colonialisms
3 credit(s); Credit will not be granted if credit has been received for: ENGL 5300;
Instructor: Scandura,Jani
Description: This course seeks to explore the literary production of North American Black women from diverse backgrounds and perspectives. Through their varied and common experiences of North American Imperialisms & Colonialisms, Black women writers have provided their readers with creative and critical tools to redefine and reenumerate the possibilities of a multicultural United States. This course will survey the literary production of selected North American Black women writers, focusing on the simultaneous construction and deconstruction of a multi-racial, multi-cultural United States.

ENG 3400 Post-Colonial Literatures: African Cinema
3 credit(s), max credits 9, 3 completions allowed; Credit will not be granted if credit has been received for: ENGL 5400;
Instructor: Sugnet,Charles J
Description: This course will assess the origins, development, and evolution of the African cinema with a focus on the expression and representation of national and cultural identities. Film selection will be based on a range of factors including geographic location, cultural politics, national identity, and historical time.

ENG 3506 Learning Internships II
A-F only, 4 credit(s); prerequisite 3505 in preceding semester or instructor consent;
Instructor: Daigre,Eric Stephen
Description: Student may contact the instructor or department for information.

ENG 3592W Introduction to Black Women Writers in the United States
3 credit(s); prerequisite credit will not be granted if credit already received for: Afro 3592, EngL 3592; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Githire,Njeri R
Description: This course seeks to explore the literary production of North American Black women from diverse backgrounds and perspectives. Through their varied and common experiences of Black females living in a white-male-dominated culture, we will endeavor to understand the social construction of race and gender, as well as their intersection with class and social-economic dynamics. In the Black cultural and literary
English

University of Minnesota - Course Guide for Twin Cities Campus  Spring 2010

traditions of truth narratives and transparency, these women share their historical, cultural, and contemporary experiences and insights with verve and authority. At the heart of their literary work is the story of how to live a more informed, enriched, and inspired life. In so doing, these writers offer us important lessons about creativity, hope, empowerment, courage, and self-expression.

Style: 40% Lecture, 5% Film/Video, 40% Discussion, 5% Small Group Activities, 10% Student Presentation.
Grading: 40% reports/papers, 15% quizzes, 20% in-class presentation, 25% class participation.

ENGL 3598W Introduction to African American Literature and Culture II
4 credit(s); Credit will not be granted if credit has been received for: AFRO 3591W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive; Instructor: Wright, John Samuel
Description: Student may contact the instructor or department for information.

ENGL 3601 Analysis of the English Language
4 credit(s); prerequisite credit will not be granted if credit already received for: EngL 3601W; Instructor: Escore, Genevieve J
Description: This course is a general introduction to basic issues in language structure and language use, with specific application to English, and occasional extension to other languages. The focus is on verbal systems, which are universally shared by all human cultures, whereas writing is a secondary, late development of speech patterns. First, we will highlight the universality of language by referring to the physiological/biological foundations of language, and the basic features that characterize language dynamics. The course is thereafter organized into two general sections: 1) A general examination and explanation of cognitive aspects of language, through concrete illustrations of its major components specifically as they apply to English. Those components include: a) the structure of sounds (phonetics and phonology); b) the structure of words (morphology); c) the structure of sentences (syntax); d) the structure of meaning (semantics); and e) the structure of discourse in context (pragmatics). The process of native language acquisition is then presented as evidence for the fundamental concepts outlined above. 2) An overview of social and behavioral aspects of language. Contemporary language variation is examined from a sociolinguistic perspective. We study the correlation between linguistic components (as presented in the first part of the course), and external social variables, such as socio-economic status, ethnicity, gender, and age. Language variability is presented in the context of stylistic shifts and code switching, with reference to differences between standard and nonstandard varieties (e.g., African American English), and relevant educational applications. Finally, we relate the historical (diachronic) development of English to its contemporary (synchronous) state.
Style: 70% Lecture, 30% Discussion. PowerPoint presentations weekly, topic summaries
Grading: 30% final exam. 3 exams (20%, 25%, 25%)
Exam Format: multiple choice, true/false, special questions relating to technical topics

ENGL 3741 Literacy and American Cultural Diversity
4 credit(s); prerequisite credit will not be granted if credit already received for: EngL 3606; Meets CLE req of Citizenship/Public Ethics Theme; meets CLE req of Cultural Diversity Theme; Instructor: Dalgren, Eric Stephen
Description: Students will serve as literacy workers for 2 hours a week outside of class at participating organizations in the nonprofit and educational sectors. This class combines academic study with experiential learning in order to collectively build a more engaged, complex understanding of the functions of literature, literacy, educational institutions, counter-institutional literacy programs, and the different cultures and communities in Minnesota and the Americas in general. We’ll explore questions of “praxis,” considering and applying our readings to the concrete circumstances of our community work, at all points trying to “make the connection” between our classroom and community work. In asking what literacy really means and what it means to be “democratic educators” in both spheres, we will challenge the distinction between classroom and community as an artifact of the modern research university. Reading: literary texts, sociological and educational theory, literacy studies. 2 papers, 2 presentations.

ENGL 3883V Honors Thesis
A-F only, 4-credit(s), max credits 4, 4 completions allowed; prerequisite Honors candidacy in English, consent of English honors advisor credit will not be granted if credit already received for: EngL 3883; 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/degree.html#honors">http://english.cla.umn.edu/ugrad/degree.html#honors</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 University Honors Program (UHP) advisers, consult with the English Honors adviser, and work closely with the professor. Students find it helpful to have a peer English honors student (in the workshop) serve as a discussant and reader during the process of developing ideas and writing. Class time: average 50 minutes every other week in workshop.
Style: discussion, Individual research, reading, writing,. One-to-one discussions with faculty advisor in addition to the workshop
Grading: 100% reports/papers. Grade is based on the completed thesis, the process leading to the final paper and the discussions with the faculty advisor.

ENGL 3960W Senior Seminar: Hip Hop
A-F only, 4 credit(s); prerequisite English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive; Instructor: Sirc, Geoffrey Michael
Description: Student may contact the instructor or department for information.

ENGL 3960W Senior Seminar: The South Asian Novel in English
A-F only, 4 credit(s); prerequisite English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive; Instructor: Ismail, Qadri M
Description: Student may contact the instructor or department for information.

ENGL 3960W Senior Seminar: Jane Austen & George Eliot
A-F only, 4 credit(s); prerequisite English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive; Instructor: Hirsch, Gordon D
Description: Student may contact the instructor or department for information.

ENGL 3960W Senior Seminar: Social Variation in American English
A-F only, 4 credit(s); prerequisite English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: EngL 3960; Meets CLE req of Writing Intensive; Instructor: Hirsch, Gordon D
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: ENG L 3960; Meets CLE req of Writing Intensive;
Instructor: Escore, Genevieve J
Description: Student may contact the instructor or department for information.

ENGL 3960W Senior Seminar: The Western: Looking Awry
A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: ENG L 3960; Meets CLE req of Writing Intensive;
Instructor: Craig, Siobhan S
Description: Student may contact the instructor or department for information.

ENGL 3960W Senior Seminar: Arthurian Literature
A-F only, 4 credit(s); prereq English major, [jr or sr], major adviser approval, dept consent credit will not be granted if credit already received for: ENG L 3960; Meets CLE req of Writing Intensive;
Instructor: Farber, Lianna
Description: We will examine the stories of King Arthur and his court that have been told for almost 900 years, looking at iterations of these stories from a twelfth-century chronicle to a movie of Monty Python. Arthurian stories tend to concentrate on ideals. We will ask what ideals the authors choose and how they portray them; to what end the ideals work; how each new telling of the stories builds on or changes previous tellings; and why it continually seems relevant to return to these figures. Texts will include Geoffrey of Monmouth's History of the Kings of Britain, Sir Gawain and the Green Knight, Malory's Le Morte D'Arthur, Tennyson's Idylls of the King, Pre-Raphaelite poetry and art, Twain's Connecticut Yankee in King Arthur's Court, White's Once and Future King, and Monty Python and the Holy Grail.

ENGL 3993 Directed Study
A-F only, 1-4 credit(s), max credits 8; prereq One 3xxx, [English major or minor or [BIS or IDIM or ICP] with English concentration], [jr or sr], instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual study. Open to qualified students for one or more semesters. Before receiving permission to register, students submit to the English Undergraduate Studies office a signed contract using the CLA "Student/Faculty Learning Contract" available in all CLA offices.

ENGL 4003 History of Literary Theory
A-F only, 3 credit(s);
Instructor: Brennan, Timothy Andres
Description: Student may contact the instructor or department for information.

ENGL 4090 General Topics: Classics of Literary Criticism
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Clayton, Tom
Description: Wit and Humor in a Jugular Vein: Bierce, Crane, Wilde These three fin del siecle wits and satirists were all natural Ironists, gifted writers, and perceptive critics of literature, culture, society, and more: Americans Ambrose "Bitter" Bierce (1842-1914?) and Stephen Crane (1871-1900), and Anglo-Irish Oscar Wilde (1854-1900). As writers persistently neglected in the U.S., Bierce and Crane will receive more attention, but Wilde has an important place in the company. Concentrated attention to Bierce's Devil's Dictionary, "An Occurrence at Owl Creek Bridge," and selected other works; Crane's collections of poems, The Black Riders and War Is Kind; and extracts and selections from the wit and humor of Wilde. Bierce defines Cynic as "A blackguard whose faulty vision sees things as they are, not as they ought to be." The three range characteristically from the skeptical to the sardonic, but their concern with the human condition is far broader, and they write satire partly in the spirit of Byron's Don Juan's "I laugh at any mortal thing, 'Tis that I may not weep."

Style: 30% Lecture, 10% Film/Video, 45% Discussion, 15% Small Group Activities. Distribution of time is bound to vary somewhat from class to class.
Grading: 15% mid exam, 15% quizzes, 35% additional semester exams, 25% reflection paper, 10% in-class presentation. 3 exams, the third 20%. The papers will be analytical, not open-ended "reflection."
Exam Format: Some objective questions, but mostly analysis and essay.

ENGL 4090 General Topics: Probing the Social Text
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Messer-Davidow, Ellen
Description: This year Hillary Clinton's historic campaign for the Democratic presidential nomination revealed a contradiction: all issues are (or ought to be) women's issues, but unfortunately female stereotypes continue to influence how citizens, leaders, and the media view women and public policy. In this course we will study problems and policies in employment, education, housing, family, welfare, health care, and reproduction as they are inflected by gender, race/ethnicity, class, and age. You will practice being public leaders who must analyze the problems and formulate better solutions than the ones we have. Your semester project can be an academic paper or a piece of work designed to make an intervention in public or policymaking arenas.

ENGL 4613 Old English II
3 credit(s); prereq 4612 credit will not be granted if credit already received for: ENG L 3961, ENG L 5613;
Instructor: Scheil, Andrew
Description: The second semester of Old English is devoted to a full translation and study of the great Anglo-Saxon epic "Beowulf." J.R.R. Tolkien wrote of the poem that "its maker was telling of things already old and weighted with regret, and he expended his art in making keen that touch upon the heart which sorrow has that are both poignant and remote." "Beowulf" is an exciting tale of strife and heroism; but it is also a subtle meditation upon the character of humanity as it struggles to understand the hazards of a harsh world, the inscrutability of fate, and the nature of history itself. "Beowulf" is not only important for a detailed understanding of Anglo-Saxon culture, but it is also a significant and moving poetic achievement in the context of world literature. We will read and translate the poem in the original Old English; thus ENGL 4612 (or a similar course resulting in a basic reading knowledge of Old English) is a prerequisite. "Beowulf" has been the object of intensive scholarly study; we will delve into the debates over the poem's date, genesis, manuscript and historical context and critical interpretation. Spending an entire semester studying one complex work can be an invaluable experience. Please contact the instructor for any questions concerning the prerequisite.
Style: 25% Lecture, 75% Discussion.
Grading: 20% final exam, 30% reports/papers, 10% quizzes, 40% class participation.
Exam Format: translation and essays.

ENGL 5002 Introduction to Literary and Cultural Theory
3 credit(s); prereq grad or instr consent;
Instructor: Craig, Siobhan S
Description: Student may contact the instructor or department for information.

ENGL 5020 Readings in Narrative: Children's Literature
3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ENGL 3020;
Instructor: Schumacher, Julie
Description: This combined undergraduate/graduate class will focus on the reading and discussion of children's literature -- on stories and novels rather than picture books or educational materials. We'll begin with fairy tales, then discuss some of the classic novels (such as Peter Pan, The Secret Garden, and The Wizard of Oz) and work our way toward contemporary American literature for young adults, discussing the ways in which literature for children reveals changing ideas about what children are, and
ENGL 5090 Readings in Special Subjects
3-4 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ENGL 5100; Instructor: STAFF Description: Student may contact the instructor or department for information.

ENGL 5150 Readings in 19th-Century Literature and Culture: Environmental Imagination in 19th-Century America
3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent credit will not be granted if credit received for: EngL 5250; Instructor: Philippson, Daniel J Description: Student may contact the instructor or department for information.

ENGL 5200 Readings in American Literature: North American Imperialisms & Colonialisms
3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent credit will not be granted if credit received for: EngL 5120; Instructor: Scandura, Jani Description: Student may contact the instructor or department for information.

ENGL 5400 Readings in Post-Colonial Literature: African Cinema
3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent credit will not be granted if credit received for: EngL 5140; Credit will not be granted if credit has been received for: EngL 5400; Instructor: Sugnet, Charles J Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent; Credit will not be granted if credit received for: EngL 5402; Instructor: Clayton, Tom Description: Student may contact the instructor or department for information.
ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Wright, John Samuel
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Baxter, Charles Roger
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Sirc, Geoffrey Michael
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Treuer, David Robert
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Damon, Maria
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Sugnet, Charles J
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Hirsch, Gordon D
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Weinsheimer, Joel Clyde
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Hancher, Michael
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Lee, Josephine D
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Elfenbein, Andrew
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Schumacher, Julie
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Luke, David B
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Mewett, John W
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Watkins, John
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Elfenbein, Andrew
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Garner, Shirley Nelson
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: FitzGerald, M. J
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed; prereq
Grad student or instr consent;
Instructor: Hamp, Patricia
Description: Student may contact the instructor or department for information.

ENGL 5992 Directed Readings, Study, or Research
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
<th>Instructor(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Browne, M D</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Cucullu, Lois B</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Griffin, Edward M</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Scheil, Katherine West</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Tinsley, Omise‘ke Natasha</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Brown, Tony C</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Scheil, Andrew</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Scheil, Katherine West</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Wright, Michelle M</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Matar, Nabil I</td>
</tr>
<tr>
<td>ENGL 5992</td>
<td>Directed Readings, Study, or Research</td>
<td>1-3 credit(s), max credits 45, 15 completions allowed; prereq Grad student or instr consent</td>
<td>Student may contact the instructor or department for information.</td>
<td>Craig, Slobhann S</td>
</tr>
</tbody>
</table>

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ENGL 8150 Seminar in Shakespeare: Shakespeare & Marlowe  
3 credit(s), max credits 9, 3 completions allowed;  
Instructor: Garner, Shirley Nelson  
Description: Student may contact the instructor or department for information.

ENGL 8300 Seminar in American Minority Literature: Asian American Cultural Criticism  
3 credit(s), max credits 12, 4 completions allowed;  
Instructor: Lee, Josephine D  
Description: ENGL 8300 Seminar in American Minority Literature Graduate Seminar Spring 2009 Topic: Asian American Cultural Criticism This seminar will consider contemporary formulations of Asian American racial formation, identity, history, community, culture, and politics. We will discuss postwar versions of Orientalism, the legacies of civil rights activism and cultural nationalism, and some contemporary directions for imagining ?Asian America.? We will also look at a number of models for current research in Asian American Studies. Readings will include Daryl Maeda's Chains of Babylon, Kandice Chuh's Imagine Otherwise and Aihwa Ong's Flexible Citizenship. Participants will be expected to collect, analyze, and present a number of source materials as well as write a final research paper. This course will be offered to other CIC campuses via CourseShare  
Style: 25% Lecture, 75% Discussion.  
Grading: 50% reports/papers, 25% attendance, 25% class participation.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Clayton, Tom  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Wright, John Samuel  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Baxter, Charles Roger  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Sirc, Geoffrey Michael  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Treuer, David Robert  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Damon, Maria  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Ismail, Qadri M  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Hirsch, Gordon D  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Sugnet, Charles J  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Weinshheimer, Joel Clyde  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Hancher, Michael  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Lee, Josephine D  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Eilenbein, Andrew  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Schumacher, Julie  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Eszure, Genevieve J  
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing  
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;  
Instructor: Damon, Maria  
Description: Student may contact the instructor or department for information.
ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Mowitt, John W
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Luke, David B
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Messer-Davidow, Ellen
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Watkins, John
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Garner, Shirley Nelson
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Fitzgerald, M. J
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Hampi, Patricia
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Browne, M. D
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Sprengnether, Madelon M
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Rabinowitz, Paula
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Luke, David B
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Griffin, Ph.D., Edward M
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Sprengnether, Madelon M
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Waters, John
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Waters, John
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Sprengnether, Madelon M
Description: Student may contact the instructor or department for information.
English: Creative Writing
222 Lind Hall

Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Goldberg,Brian B
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Farber,Lianna
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Tinsley,Omise’eko Natasha
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Ch'ien,Evelyn Nien-Ming
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Scheil,Andrew
Description: Student may contact the instructor or department for information.

ENGL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed; prereq instr consent, dept consent;
Instructor: Daniel,Judith A
3 credit(s); prereq 1101 or 1102 or dept consent;
Style: 25% Lecture, 50% Discussion. workshop
Grading: Revised stories/Final Portfolio
Exam Format: Revised stories/Final Portfolio

ENGW 1102 Introduction to Fiction Writing
3 credit(s);
Instructor: STAFF
Description: Introductory course in the art and craft of reading and writing fiction. Students will read a variety of classic and contemporary fiction. Students will be responsible for composing original stories; writing comments on student work; workshop participation; attendance at a literary reading; and a final portfolio of fiction.
Style: 25% Lecture, 50% Discussion.
Exam Format: Revised stories/Final Portfolio

ENGW 1103 Introduction to Poetry Writing
3 credit(s);
Instructor: STAFF
Description: Introductory course in the art and craft of reading and writing poetry. Students will read and analyze contemporary and classic works of poetry while also constructing and revising their own poetry. Students will be responsible for crafting original poetry; commenting on student work; workshop participation; attendance at a literary reading; short presentations and/or papers; a final portfolio of poetry.
Style: 25% Lecture, 50% Discussion. workshop
Exam Format: Revised poems/final portfolio

ENGW 1104 Introduction to Literary Nonfiction Writing
3 credit(s);
Instructor: STAFF
Description: Introductory course in the art and craft of reading and writing literary nonfiction. Students will read and analyze contemporary and classic nonfiction literary works (essays, memoir, biography, autobiography, short-shorts) and also construct and revise their own nonfiction pieces. Students will be responsible for crafting original works of nonfiction; commenting on student work; workshop participation; attendance at a literary reading; short papers and/or presentations; a final portfolio of nonfiction.
Style: 25% Lecture, 50% Discussion. workshop
Exam Format: Revised nonfiction/final portfolio of nonfiction

ENGW 3102 Intermediate Fiction Writing
3 credit(s); prereq 1101 or 1102 or dept consent;
Instructor: STAFF
Description: Intermediate course in the art and craft of reading/writing fiction for students with previous experience in fiction writing. Students will read and analyze contemporary and classic short fiction and also construct their own stories. Students will be responsible for written comments on student work; workshop participation; attendance at a literary reading; some short papers and presentations; and a final portfolio of short fiction.
Style: 25% Lecture, 50% Discussion. workshop
Grading: Revised fiction/final portfolio of fiction

ENGW 3102 Intermediate Fiction Writing
3 credit(s); prereq 1101 or 1102 or dept consent;
Instructor: Daniel,Judith A
Description: The short story is a fascinating and very appealing form, particularly for American writers. Perhaps it is our history of discord, social upheaval, our restlessness and need for constant change that makes us so at home with a form that is short, intense, concentrated, and versatile. Our need to discover ourselves through our stories, to embrace crisis, to reinvent the culture for each new generation, is also part of what makes the short story so attractive to us. Whatever the reason, American writers of the past two hundred years have developed the short story form into a national treasure. From the wonderfully rambling descriptions of Washington Irving, whose dislocated citizen, Rip Van Winkle, slept through the Revolutionary War, to John Cheever's dislocated Neddy Merrill, who fast forwards into his own future, the American short story bristles with life and energy as it charts, more accurately than our history books, our world view, our lives, and our sense of who we are and what we are becoming. For more course information, see the downloadable syllabus on the Media Upload page. Course Outline: Lesson 1: Getting Started Lesson 2: Character;
ENGW 3104 Intermediate Poetry Writing
3 credit(s); prereq 1101 or 1103 or dept consent;
Instructor: STAFF
Description: This intermediate level course is for writers who have some previous experience in writing poetry. The course will focus on craft and stylistic techniques using writing exercises and readings from a range of poets writing in different forms. The workshop portion of the class will be devoted to developing individual student work; student critiques; some short papers and presentations; attendance at one literary reading; final portfolio of poetry.
Style: 25% Lecture, 50% Discussion. workshop
Exam Format: Final portfolio of poems

ENGW 3106 Intermediate Literary Nonfiction Writing
3 credit(s); prereq 1101 or 1104 or dept consent;
Instructor: STAFF
Description: This intermediate level course is for writers who have some previous experience writing literary nonfiction: memoir, essay, biography, etc. Students will read and analyze contemporary and classic nonfiction works while also constructing and revising their own nonfiction writing. Written comments on student work, workshop participation, some short papers and presentations, attendance at a literary reading and a final portfolio of nonfiction writing.
Style: 25% Lecture, 50% Discussion.
Exam Format: revised nonfiction/final portfolio of nonfiction

ENGW 5202 Journal and Memoir Writing
3 credit(s);
Instructor: Galt, Margot Kriel
Description: Remembering incidents and facts, mulling them over in the present, and extracting insights from them is one of a writer's most important activities. Memory may help a journalist recall a race, a poet call up the smell of midnight blue petunias on a grandfather's porch, or a novelist remember a detail - say a neighbor's fastidious lawn - that will make a fictional character feel real. But memory viewed as a writer's main resource, when the story of the self takes center stage, belongs to the kind of writing we now call memoir. Course Outline Lesson 1: Describing First Lesson 2: Seeing and Remembering; Submission 1 Lesson 3: Self-Portraits and Real Characters, Lessons in Revision Lesson 4: Landscape and Memory; Submission 2 Lesson 5: Giants in the Kitchen: Writing about Parents Lesson 6: The Self in the Larger World Lesson 7: The Traveler: Leaving Home to Find the Self; Submission 3 Lesson 8: Memory and Imagination Lesson 9: The Private Self within the Public Role Lesson 10: Myth and History; Submission 4 Appendix A: Bibliography of Selected Memoirs and Related Books Appendix B: Supplementary Readings Course Objectives As a result of taking this course, you will be able to 1. brainstorm material from your memory; 2. use a journal to develop writing; 3. draft memoir prose, employing principles of literary variety, appropriate diction, sensuous description, narrative momentum, poetic and thematic shaping, and suitable metaphor; 4. employ principles of revision; 5. use the response of readers or listeners to improve your work; 6. identify and appreciate works of memoir by earlier and contemporary authors; and 7. begin to understand how racial and ethnic differences affect the stories people tell about themselves. Course Materials --Lyons, Robert, ed. Autobiography: A Reader for Writers. 2d ed. New York: Oxford University Press, 1984. --Minnesota Humanities Commission Staff, ed. Braided Lives: An Anthology of Multicultural American Writing. St. Paul: Minnesota Humanities Commission, 1991. --Galt, Margot Fortunato. The Story in History: Writing Your Way into the American Experience. New York: Teachers & Writers Collaborative, 1992. --Selected essays and excerpts in the study guide For more course information, please see the downloadable syllabus on the Media Upload tab.
Style: This is a printed correspondence section.
Grading: 100% written homework. The first submission is 100%. Subsequent submissions are graded as a composite of 1, 2, 3, and 4 = 40% 4 and 6 (the first and final drafts of your short story) = 60% If you elect S/N grading, you must average a C- to earn a grade of S.

ENGW 3110 Topics in Creative Writing: Journaling into Fiction
3 credit(s), max credits 9, 3 completions allowed; prereq 1101 or 1102 or 1103 or 1104 or dept consent;
Instructor: Daniel, Judith A
Description: You may contact the instructor or department for information.
Exam Format: No exams

ENGW 3960W Writing Workshop for Majors: Fiction/Nonfiction
A-F only, 4 credit(s); prereq Enl 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: Treuer, David Robert
Description: Student may contact the instructor or department for information.

ENGW 5130 Topics in Advanced Creative Writing: Long Stories, Short Novels and Graphic Works
4 credit(s), max credits 16, 4 completions allowed; prereq inst consent;
Instructor: Fitzgerald, M. J
Description: Long Stories, Short Novels, Graphic Works: We will read works by Henry James, Garcia Marquez, Alice Munro, Muriel Spark, Gabriel Josipovici, Nicholson Baker, Margot Livesay, David Markson. The aim is to explore the intricacies and simplicities of the form, look into a few of the more recent graphic works (Spiegelman, Sfar, Bechdel) to question whether this is a departure or a continuation of earlier forms. Although we will not do much workshop activity, you are free to submit creative as well as analytical responses to the readings.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
experience in creative writing and/or a working knowledge of basic screenplay format. Students’ scripts-in-progress may be either a complete short film or an excerpt from a feature-length film. Class critiques will emphasize issues of imagery, characterization, plot and structure, as well as creative process within screenwriting. Also expect in-class screenings, guests, and nuts and bolts discussion about story pitches, synopses and other vagaries of the professional industry. For advanced undergraduates, graduate students, and writers from the community interested in continuing education. Ask for a permission number in 222 Lind Hall.

ENGW 5310 Reading as Writers: Reading Poetry
4 credit(s), max credits 8; prereq grad student, dept consent ;
Instructor: Watkins, John
Description: This is a course on poetry with a primary emphasis on lyric verse written in England, Ireland, and America from the end of the Middle Ages to the present. Our emphasis will be on prosody, craftsmanship, versification. Literary scholars can hone skills of argument and exegesis answerable to an array of theoretical and historical perspectives and it will offer writers a chance to think about the aesthetic consequences of a variety of romal choices. We'll begin with a unit on poetic line in isolation before turning to questions of meter, scansion, enjambment, end-stopping, rhyme and free verse. We will move on to English stanza forms: couplets, quatrains, tercets, rhyme royal, ottava rima, Spenserian stanza. We will then move to sonnets, ballads, villanelles, songs, hymns, monologues, elegies. Our final unit will take up three poets who have a complex relationship to the poetic past: Yeats, Eliot, Stevens. Requirements; a journal that will include several exercises in versification and a final exegetical paper (10-12 pages).

ENGW 5993 Directed Study in Writing
1-4 credit(s), max credits 18, 18 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: By arrangement with individual faculty. For more information, contact the Creative Writing Program at (612) 625-6366.

ENGW 8110 Seminar: Writing of Fiction: Time Management: Linear and Nonlinear Narratives
4 credit(s), max credits 16, 4 completions allowed; prereq dept consent ;
Instructor: Baxter, Charles Roger
Description: This year we will investigate Time Management in fiction and I'll be bringing Joan Silber's The Age of Time in Fiction as a starting point. Silber's categories of fabulous time” and switchback time are particularly useful, and we'll also be examining stretched time (in Paula Fox) and modular time (in Evan Connell). We'll also be looking at one or two Mobius-strip narratives, such as Silber's The Size of the World, and infolded time double-plot narratives. Texts may include Connell's Mrs. Bridge, Katherine Anne Porter's stories, Paula Fox's The Widow's Children, Percival Everett's Erasure, Deborah Eisenberg's Twilight of the Superheroes, DeLillo's The Body Artist. We may also read some fiction by Patrick White. The course includes workshop writing.

ENGW 8120 Seminar: Writing of Poetry: Politics of Poetic Forms
4 credit(s), max credits 8; prereq dept consent ;
Instructor: Gonzalez, Ramon
Description: This course focuses on the current state of contemporary American Poetry and how its forms have changed. We'll discuss the evolution from deep image lyricism to language-poetic fragmentation to fresh approaches toward line image, and phrase. We will debate the notion that American poetry has evolved into a "hybrid" form that bridges old schools of poetic thought. Close reading of texts by key poets, along with craft talks centered on poems each student will submit, should lead toward a deeper immersion into the shifting terrain of the modern poem. Each student will create and submit one major project centered on American poetry and its vast changes. This project will require a combination of written paper, performance, and media presentation. Required texts: American Hybrid: Anthology of New Poetry (Cole Swenson, David St. John); A Wave, John Ashbery: The Complete Poems, Elizabeth Bishop; Averno, Louise Gluck; Selected Poems, George Oppen; Hotel Insomnia, Charles Simic.

ENGW 8130 Seminar: Writing of Literary Nonfiction
4 credit(s), max credits 8; prereq dept consent ;
Instructor: Treuer, David Robert
Description: Translating Time and Truth in Nonfiction: This course will examine how truth and time work in nonfiction. That is, how to translate real time into the fictional time of narrative. We'll be reading essays, cultural criticism, travel writing, memoir, and biography, including works by Greil Marcus, Phillip Roth, Vladimir Nabokov, Geoffrey Wolff, Mary Karr, Curtis White, Nicholson Baker, and others.

ENGW 8170 MFA Practicum: EngW 1101W
S-N only, 3 credit(s); prereq Creative writing MFA student, instr consent ;
Instructor: Schumacher, Julie
Description: Student may contact the instructor or department for information.

Entomology
219 Hodson Hall

ENT 1905 Topics: Freshman Seminar
1-3 credit(s), max credits 3, 1 completion allowed; prereq Fr;
Instructor: Ferrington Jr, Leonard Charles
Description: This is an introductory course for undergraduate students, graduate students, and professionals with an interest in the management of insects in urban landscapes and in greenhouse, turf and nursery industries. The course examines the principles and implementation of Integrated Pest Management programs to manage pests. IPM is the practice of using a variety of cultural, biological and chemical methods to manage insects. IPM methods include biorational and biological pest controls, monitoring insect populations and the judicious use of chemical pesticides applied at the most vulnerable time in an insect's life history. Pest life histories, risk potential, and biological control potential are reviewed. One goal of IPM is to reduce any harmful impact chemicals may have on beneficial insects, wildlife or water quality. This is a web-based course using the CUES website (www.entomology.umn.edu/cues) and other IPM resources on the web. The required textbook is V. Krischik and J. Davidson. 2004. IPM of Midwest Landscapes. UMN extension number SB-07645 Questions? Try krisc001@umn.edu website.
Style: 60% Lecture, 5% Discussion, 25% Laboratory.
Grading: 20% mid exam, 20% final exam, 30% quizzes, 25% laboratory evaluation, 5% problem solving.
Exam Format: Essay and multiple choice

ENT 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq COAFES jr or sr, complete internship contract S-N only, 1-3 credit(s); prereq dept consent ;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

ENT 4015 Ornamentals and Turf Entomology
3 credit(s); prereq 1xxx course in bio or hort or forest resources;
Instructor: Krischik, Vera Aber
Description: This is an introductory course for undergraduate students, graduate students, and professionals with an interest in the management of insects in urban landscapes and in greenhouse, turf and nursery industries. The course examines the principles and implementation of Integrated Pest Management programs to manage pests. IPM is the practice of using a variety of cultural, biological and chemical methods to manage insects. IPM methods include biorational and biological pest controls, monitoring insect populations and the judicious use of chemical pesticides applied at the most vulnerable time in an insect's life history. Pest life histories, risk potential, and biological control potential are reviewed. One goal of IPM is to reduce any harmful impact chemicals may have on beneficial insects, wildlife or water quality. This is a web-based course using the CUES website (www.entomology.umn.edu/cues) and other IPM resources on the web. The required textbook is V. Krischik and J. Davidson. 2004. IPM of Midwest Landscapes. UMN extension number SB-07645 Questions? Try krisc001@umn.edu website.
Style: 60% Lecture, 5% Discussion, 25% Laboratory.
Grading: 20% mid exam, 20% final exam, 30% quizzes, 25% laboratory evaluation, 5% problem solving.
Exam Format: Essay and multiple choice

ENT 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq COAFES jr or sr, complete internship contract available in COAFES Career Services before enrolling, UC only, instr consent;
Instructor: STAFF
Description: Professional experience in entomology firms or government agencies through supervised practical experience; evaluative reports and consultations with faculty advisors and employers.
ENT 5021 Insect Taxonomy and Phylogeny
4 credit(s);
Instructor: Holzenthal, Ralph W
Description: Insects are the most diverse group of organisms on Earth with almost 1 million described species. Millions more remain to be described, especially in tropical regions of the world. Insects come in a remarkable array of sizes, colors, and shapes. Taxonomists use this morphological complexity as the primary means of identifying insects, but also for inferring evolutionary relationships. In this course, we will learn how to identify insects, explore methods of collection and curation of insects, discuss their evolutionary relationships, see how insects fit in the natural world, and discuss exciting new efforts to inventory and conserve the remarkable diversity of insects. Text books: Grimoldi, D., and M.S. Engel. 2005. Evolution of Insects, Cambridge University Press. New York. 755 pp. Borror, D.J., and R.E. White. 1970. A Field Guide to the Insects. Peterson Field Guide Series. Houghton Mifflin Co. New York. 404 pp.
Style: 50% Lecture, 50% Laboratory.
Grading: 25% mid exam, 25% final exam, 50% quizzes.
Exam Format: Essay

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

ENT 5361 Aquatic Insects
A-F only, 4 credit(s); prereq instr consent;
Instructor: Ferrington Jr, Leonard Charles
Description: This course is designed for upper level undergraduate (junior and senior) and graduate students with interests in General Biology, Entomology, Aquatic Ecology, Limnology, Water Resources or Conservation Biology. Course content includes lectures, independent readings, and laboratory and field exercises. Students with no previous formal training in Entomology are encouraged to enroll, as an overview of basic entomological concepts will be presented during the first few weeks of class. The text will be &quot;An Introduction to the Aquatic Insects of North America&quot; 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 5900 Basic Entomology
1-6 credit(s), max credits 12; prereq instr consent;
Instructor: STAFF
Description: Opportunity to make up certain deficiencies in biological background.

ENT 5910 Special Problems in Entomology
1-6 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: STAFF
Description: Individual field, lab, or library studies in various aspects of entomology.

ENT 8200 Colloquium in Social Insects
1-3 credit(s), max credits 3, 1 completion allowed; prereq 3020 or 3200;
Instructor: Spivak, Marla
Description: Student may contact the instructor or department for information.

ENT 8300 Graduate Seminar
S-N only, 1 credit(s); prereq instr 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 completions 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 completions 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 completions allowed;
Instructor: Krischik, Vera Aber
Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology
S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;
Instructor: Munderloh, Ulrike G
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 completions allowed;
Instructor: Andow, David
Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology
S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;
Instructor: Holzenthal, Ralph W
Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology
S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;
Instructor: Kurtti, Timothy J
Description: Student may contact the instructor or department for information.
ENT 6594 Research in Entomology
S-N only, 1-6 credit(s), max credits 36, 6 completions allowed;
Instructor: Ostlie, Kenneth R
Description: Student may contact the instructor or department for information.

ENT 6594 Research in Entomology
S-N only, 1-6 credit(s), max credits 36, 6 completions allowed;
Instructor: Spivak, Marla
Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology
S-N only, 1-6 credit(s), max credits 36, 6 completions allowed;
Instructor: Kells, Stephen A
Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology
S-N only, 1-6 credit(s), max credits 36, 6 completions allowed;
Instructor: Ferrington, Jr., Leonard Charles
Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology
S-N only, 1-6 credit(s), max credits 36, 6 completions allowed;
Instructor: Ragsdale, David W
Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology
S-N only, 1-6 credit(s), max credits 36, 6 completions allowed;
Instructor: Heimpel, George Eugene
Description: Student may contact the instructor or department for information.

ENT 8594 Research in Entomology
S-N only, 1-6 credit(s), max credits 36, 6 completions allowed;
Instructor: Ragsdale, David W
Description: Student may contact the instructor or department for information.

ENT 6021 Preparing and Implementing the Business Plan
A-F only, 2 credit(s), max credits 4, 1 completion allowed;
Instructor: Rao, Dileep R
Description: Description Students work in a collaborative setting to write a business plan for their own business venture launch, either via a startup or acquisition. The course includes weekly class meetings where each team of students presents various aspects of their business plan as they develop it, such as the elevator pitch, company mission, product/ service value proposition, customer and market segmentation, competitive analysis, business strategy, marketing plan and financial projections. Students analyze and provide feedback on each other's plans and learn from each other's analysis. At the end of the course, students present their written business plan.

Objectives This course is designed to teach students how to write a business plan. The students are introduced to the requirements for a good business plan, and are expected to write and present their plan. Student will work in teams and write a plan for a business startup. Students have to present their business plans in class, and a "consultant" (another student team) is asked to analyze the business plan and make recommendations to the "clients" (the class) on whether or not they should finance or approve the venture. Learning Outcomes Students will demonstrate knowledge of how to: 1. Write a complete business plan; and 2. Analyze written business plans. Unique Opportunities / Learning Activities This class offers students the opportunity to write a 'reality-based' business plan that is targeted towards venture capitalists. Activities include: - Knowing the various sections of a business plan. - Understanding how investors read business plans and what they read ?between the lines.? - How to evaluate another team's business plan so as to understand the perspective of the consultant/ investment banker. - Present the business plan to ?raise money.? Career Application and Competencies Developed The contents of this course can be used in a variety of careers, including: - Entrepreneurs interested in finding the resources for high-growth ventures. - Those interested in consulting with new ventures. - Those interested in financing new ventures.

ENT 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 startups or acquisitions. 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 To help students achieve an understanding of how America's financing system works for all types of business ventures -- with an emphasis on financing of high-growth ventures. This course is designed for students who are interested in the venture field as potential entrepreneurs or intermediaries/ consultants; or as financiers (equity; debt; development finance). Learning Outcomes Students will demonstrate understanding of the American financial system, including institutional/ individual and debt/ equity development to develop the most appropriate financing plan for high-growth or mid-sized businesses. Students will also develop the skills to raise money for all types of new, emerging and growing businesses. The emphasis is on application -- to raise money for the non-Fortune 1000 businesses. Students will develop financial plans to help ventures raise equity, debt or development financing for startups or acquisitions. Unique Opportunities / Learning Activities This class offers students the opportunity to understand how entrepreneurs and their advisors can design the ?best? financing plan that combines low-cost development...
Economics and Finance

ESPM 1003H Honors Colloquium: Topics in Environmental Science and Society
A-F only, 0 credit(s); max credits 6; prereq Lower division honors, instr consent ; Instructor: Paul S. Stofferen
Description: Student may contact the instructor or department for information.

ESPM 1011 Issues in the Environment
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme; Instructor: Knight, Joe
Description: This course is an introductory survey of environmental issues that explores the connections between environmental sciences, policy, and management. The course begins by reviewing scientific, ethical, and economic approaches to environmental decision-making, but our primary focus will be scientific. Then we'll conduct a short review of ecology, focusing on case studies involving threats to biological diversity. Finally, we'll apply these perspectives to prominent environmental issues, including human population growth, resource consumption, land management (e.g. forestry, agriculture), pollution, and energy use. The course is intended for first-year students majoring in Environmental Sciences, Policy, and Management (ESPM), and for all students who are interested in the environment and wish to satisfy the University's liberal education themes for Environment and Citizenship/Public Ethics. The course has no prerequisites and is appropriate for students with little or no scientific background.
Style: 65% Lecture, 5% Film/Video, 15% Discussion, 15% Small Group Activities.
Grading: 55% mid exam, 18% quizzes, 27% written homework.
There will be 3 short writing assignments.
Exam Format: We will have three 40-point exams (non-cumulative) that will test your knowledge of the topics covered in the textbook and lectures. Exams will include a combination of multiple-choice, true/false, matching, and short-answer questions.

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: Miltel, Dylan Baird
Description: Student may contact the instructor or department for information.

ESPM 2021 Environmental Sciences: Integrated Problem Solving
A-F only, 3 credit(s); prereq 1011, ESPM major, soph, intro biology course; Instructor: Halbach, Thomas R.
Description: Environmental issues facing the world today are increasingly complex. Global climate change, air and water quality, forest and agricultural production, and species conservation require an ability to conceptualize problems broadly so that solutions may be crafted to address a multitude of perspectives and considerations. Solutions will require the ability to structure problems that are ill-defined, ambiguous and ever-changing, and that incorporates input from multiple disciplines. Employers are increasingly seeking individuals with the ability to work in teams to resolve these complex problems and to contribute to the creation of new knowledge. For this reason, it is important that Environmental Sciences, Policy, and Management (ESPM) graduates develop strategies for resolving problems. This course will challenge you to frame environmental problems working in interdisciplinary teams and to develop a "tolerance for ambiguity" that will carry forward in upper division courses and in your professional pursuits.
Style: 5% Lecture, 15% Discussion, 50% Small Group Activities, 25% Demonstration. Group and individual problem solving activities
Grading: 20% reports/papers, 20% written homework, 25% reflection paper, 25% problem solving, 10% other evaluation. Peer assessment of team contributions to inform instructor evaluations
Exam Format: Demonstration of team problem solving of a given environmental situation

Environmental Sciences, Policy, and Management

ESPM 2041 Natural Resources Consumption and Sustainability
3 credit(s); Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme; Instructor: Suh, Sangwon
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 development of natural resources. - Listening to financiers who represent venture capitalists, and developers financing ventures. - Professionals, such as accountants and attorneys, who work with entrepreneurs.

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;
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: Bieser,Claire Seriyesosol
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); Credit will not be granted if credit has been received for: ESPM 5031;
Instructor: Jenkins,Andrew Carl
Description:

ESPM 3111 Hydrology and Water Quality Field Methods
A-F only, 3 credit(s); prereq 4061 or EEB 4601 or GEO 4601 or FR 3114; Credit will not be granted if credit has been received for: ESPM 5111;
Instructor: Magner,Joe
Description: This course is about applied methods used by the industry to define hydrology and water quality. Most of the time we will be on a field trip to learn about flood forecasting, using water quality sondes, CR10's, auto-samplers, sampling monitoring wells, surveying stream channels and measuring streamflow. You will be required to think & write about system design. Plan on attending at least one weekend field trip in April.
Style: 70% Field Trips, 30% Guest Speakers.
Grading: 40% mid exam, 40% final exam, 20% reports/papers.
Exam Format: Take-home, problem solving

ESPM 3131 Environmental Physics
A-F only, 3 credit(s); prereq Phys 1101;
Instructor: Mulla,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:

ESPM 3207 Natural Resource-based Sustainable Development in Costa Rica
3 credit(s); prereq [Jr or sr], instr consent ; Credit will not be granted if credit has been received for: ESPM 5207;
Instructor: Current,Dean Alan
Description:

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:

ESPM 3221 Soil Conservation and Land-Use Management
3 credit(s); prereq SOIL 1125 or 2125 or instr consent ;
Instructor: Wheeler,Daniel B
Description: Student may contact the instructor or department for information.

ESPM 3241W Natural Resource and Environmental Policy: History, Creation, and Implementation
3 credit(s); Credit will not be granted if credit has been received for: ESPM 5241; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: Becker,Dennis R
Description: This course examines the political and administrative processes at play in the use of natural resources and protection of the environment. The focus is on exposing students to the processes by which fundamental disagreements over how the conservation and management of natural resources are addressed by different stakeholders, private-sector interests, government agencies and institutions, communities, and non-profit organizations. The course develops student understanding of and appreciation for the fundamental concepts of natural resource policy, the policy process, and social science methodologies used to assess policy choices. Relevant laws and institutions will be reviewed. Student will also be exposed to basic scientific tools and techniques for developing policy alternatives, evaluating existing natural resource policies, and methodologies for monitoring and adaptive management. Students will apply these concepts and scientific principles to a variety of contemporary issues through individual written assignments and team projects exploring aspects of problem definition, data collection, and the accrual of knowledge.
Style: 40% Lecture, 45% Discussion, 15% 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 3575 Wetlands Conservation
3 credit(s); Credit will not be granted if credit has been received for: ESPM 5575;
Instructor: Landwehr,Tom John
Description: Style: 75% Lecture, 5% Small Group Activities, 5% Student Presentation, 5% Field Trips, 10% Guest Speakers.
Grading: 15% mid exam, 30% final exam, 10% reports/papers, 20% special projects, 15% additional semester exams, 10% class participation.

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: Seavey,Robert Thomas
Description: Student may contact the instructor or department for information.

ESPM 3602 Regulations and Corporate Environmental Management
A-F only, 3 credit(s); prereq APEC 1101 or ECON 1101 or 3261W; Credit will not be granted if credit has been received for: ESPM 5602;
Instructor: STAFF
Description: Students will learn the basic principles and evolution of environmental regulatory development and implementation at U.S. national, state, and local levels as well as some introduction to international regulations. The course will emphasize the perspectives of the various stakeholders concerned with regulatory and non-regulatory responses to the perceived threats to environmental health. In particular, students will gain insight into the issues corporations need to deal with to achieve successful environmental management.

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: Barney,Brett M
Description: Student may contact the instructor or department for information.

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: Student may contact the instructor or department for information.
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 4021W Problem Solving: Environmental Review 4 credit(s); prereq Jr or sr; Meets CLE req of Writing Intensive;
Instructor: Cooper, Terence H
Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study 1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent;
Instructor: Nelson, Kristen C
Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study 1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent;
Instructor: Nater, Ed
Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study 1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent;
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 completions allowed; prereq instr 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 completions allowed; prereq instr 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 completions allowed; prereq CFANS undergrad, instr consent, completed internship contract;
Instructor: Cooper, Terence H
Description: Student may contact the instructor or department for information.

ESPM 4200H Honors Seminar A-F only, 1 credit(s); prereq ENR upper div honors, instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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: Enzler, Sherry Anne
Description: ESPM 4607 Industrial Biotechnology and the Environment A-F only, 3 credit(s); prereq BIOL 1009, CHEM 1021; Credit will not be granted if credit has been received for: ESPM 5607;
Instructor: Sarkanen, Simo
Description: The course will provide the fundamental background for students who are not in science or engineering to understand the following: Biomas 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; Bicatalysis 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 4801H Honors Research A-F only, 2 credit(s); prereq ENR upper div honors, instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

ESPM 4802H Honors Research A-F only, 2 credit(s); prereq ENR upper div honors, instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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: 

ESPM 5031 Applied Global Positioning Systems for Geographic Information Systems A-F only, 3 credit(s); prereq Grad student or instr consent credit will not be granted if credit received for: Biol 5501; Credit will not be granted if credit has been received for: ESPM 3031;
Instructor: Jenks, Andrew Carl
Description: Student may contact the instructor or department for information.

ESPM 5111 Hydrology and Water Quality Field Methods A-F only, 3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ESPM 3111;
Instructor: Magner, Joe
Description: This course is about applied methods used by the industry to define hydrology and water quality. Most of the time we will be on a field trip to learn about flood forecasting, using water quality sondes, CR10’s, auto-samplers, sampling monitoring wells, surveying stream channels and measuring streamflow. You will be required to think & write about system design. Plan on attending at least one weekend field trip in April.
Style: 70% Field Trips, 30% Guest Speakers.
Grading: 40% mid exam, 40% final exam, 20% reports/papers.
Exam Format: Take-home, problem solving.

ESPM 5202 Environmental Conflict Management, Leadership, and Planning A-F only, 3 credit(s); prereq Grad or instr consent; Credit will not be granted if credit has been received for: ESPM

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ESPM 5207 Natural Resource-based Sustainable Development in Costa Rica
3 credit(s); prereq 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); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ESPM 3211; Instructor: Ek, Alan Ryan
Description: This course examines the political and administrative processes at play in the use of natural resources and protection of the environment. The focus is on exposing students to the processes by which fundamental disagreements over how the conservation and management of natural resources are addressed by different stakeholders, private-sector interests, government agencies and institutions, communities, and non-profit organizations. The course develops student understanding of and appreciation for the fundamental concepts of natural resource policy, the policy process, and social science methodologies used to assess policy choices. Relevant laws and institutions will be reviewed. Student will also be exposed to basic scientific tools and techniques for developing policy alternatives, evaluating existing natural resource polices, and methodologies for monitoring and adaptive management. Students will apply these concepts and scientific principles to a variety of contemporary issues through individual written assignments and team projects exploring aspects of problem definition, data collection, and the accrual of knowledge.
Style: 40% Lecture, 45% Discussion, 15% 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); prereq 3241, [sr or grad student]; Credit will not be granted if credit has been received for: ESPM 4256; Instructor: Enzler, Sherry Anne
Description: This course examines the legal and policy issues related to the management and use of public lands and waters.

ESPM 5601 Principles of Waste Management
A-F only, 3 credit(s); prereq 1125 or 2125, Biol 1002/1009 or Chem 1021, Stat 3011, ApEc 1101 or instr consent; Instructor: Halbach, Thomas R.
Description: This course introduces students to the fundamental concepts and principles of waste management.

ESPM 5602 Regulations and Corporate Environmental Management
A-F only, 3 credit(s); prereq APEC 1101 or ECON 1101; Credit will not be granted if credit has been received for: ESPM 3602; Instructor: STAFF
Description: This course introduces students to the regulatory framework for environmental management and the role of corporations in this context.

ESPM 5605 Recycling: Extending Raw Materials Supplies
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 3605; Instructor: Barney, Brett M
Description: This course explores the principles and practices of recycling, focusing on the extension of raw materials supplies.

ESPM 5607 Industrial Biotechnology and the Environment
A-F only, 3 credit(s); prereq BIOL 1009, CHEM 1021, grad student; Credit will not be granted if credit has been received for: ESPM 4607; Instructor: Sarkaneen, Simo
Description: This course examines the role of biotechnology in environmental protection and sustainability.

ESPM 5609 Air Pollution Impacts, Management, and Ethical Challenges
A-F only, 3 credit(s); prereq [CHEM 1021 or CHEM 1015], [BIOL 1001 or BIOL 1009 or CHEM 1017]; Instructor: Jann, Kevin A
Description: This course explores the ethical and practical implications of air pollution management.

ESPM 5703 Agroforestry in Watershed Management
3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ESPM 3703; Instructor: Zamora, Diomay Santos
Description: This course introduces students to the principles and practices of agroforestry in watershed management.

ESPM 5811 Environmental Interpretation
A-F only, 3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: ESPM 4811; Instructor: Carlson, Stephan Paul
Description: This course provides students with the skills necessary to interpret environmental data and communicate findings effectively.

**Experimental and Clinical Pharmacology:**
7-159 WDH

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ECP 5620 Drug Metabolism and Disposition
A-F only, 3 credit(s); prereq Grad student or instr consent;
Instructor: Tracy,Tim
Description: Student may contact the instructor or department for information.

ECP 8100 Seminar
1 credit(s), max credits 8, 8 completions allowed; prereq SACP grad major in ECP track or instr consent;
Instructor: Johnson PhD,L'Aurelle Anna Lee
Description: Student may contact the instructor or department for information.

ECP 8420 Clinical Trial Simulation
2 credit(s); prereq SACP grad major in ECP track or instr consent;
Instructor: Birnbaum PhD,Angelika K
Description: Student may contact the instructor or department for information.

ECP 8900 Advanced Topics in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 8, 4 completions allowed; prereq SACP grad major in ECP track or instr consent;
Instructor: Brundage,Richard
Description: Student may contact the instructor or department for information.

ECP 8900 Advanced Topics in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 8, 4 completions allowed; prereq SACP grad major in ECP track or instr consent;
Instructor: Noreddin PhD,Ayman M
Description: Student may contact the instructor or department for information.

ECP 8992 Directed Readings in Experimental and Clinical Pharmacology
1-2 credit(s), max credits 4, 4 completions allowed;
Instructor: Peterson,Marnie Lorraine
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Brundage,Richard
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Mann,Harry J
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Jacobson,Pamala Ann
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Noreddin PhD,Ayman M
Description: Student may contact the instructor or department for information.

FSOS 1101 Intimate Relationships
4 credit(s); Meets CLE req of Cultural Diversity Theme;
meets CLE req of Social Science Core;
Instructor: Mendenhall PhD,Tai Justin
Description: Intimate Relationships is a course that focuses on the interpersonal dynamics of couples, and on the dynamics of couples in-context. We will explore how intimate relationships evolve and develop and how they succeed or fail. We will talk about a variety of important relationship topics and skills, including dating, hooking-up, cohabitation, marriage, sexual orientation, gender roles & power, communication & conflict resolution, relationship problems (e.g., abuse, infidelity, divorce), and couple enrichment/couples therapy. The course’s principal goal is to provide an overview of these and related topics, and to help you gain a deeper appreciation and awareness of their importance.
Style: 50% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities.
Grading: 33% final exam, 33% reports/papers, 33% quizzes.
Exam Format: Multiple Choice + Essay

FSOS 1301 Cash or Credit: You Need to Know
A-F only, 1 credit(s);
Instructor: Zuiker, Virginia Solis
Description: College students are referred to as "America’s newest class of debtors" by the media. They are targeted for easy-to-get credit cards and also may have large student loans. FSOS 1301 is a course that provides PSEO students, freshmen and sophomore students with factual information about basic money management skills. The great thing about this class is that the topics covered in class can be applied to every day life, even the life that exists outside of college. This is an on-line, interactive learning based class.
Style: 100% Web Based. Distance learning, web-based
Grading: 40% reports/papers, 60% quizzes.
Exam Format: Multiple choice

FSOS 2101 Preparation for Working With Families
A-F only, 2 credit(s);
Instructor: Plescher PhD,Kristine Nicole
Description: This course is designed to be a systematic preparation for upper division education, research and field internships, and career possibilities in Family Social Science. Central to the focus of this course is also the advancement of students’ thinking power by utilizing five levels of thinking outlined by Bloom, 1956. These five levels: knowledge, comprehension, application, analysis, evaluation, and synthesis are used in responding to the course text, “Becoming a Helper” by Marianne and Gerald Corey (2007) and workbook assignments. Book and class topics include the following: Are the Helping Professions for You? Getting the Most from Your Education and Training, Stages in the Helping Process, Common Concerns of Beginning Helpers, Ethical Issues Facing Helpers, Values and the Helping Relationship, Cultural Diversity in the Helping Professions, Working in the Community, Working with Groups, Working with the Family, Understanding Life Transitions, Stress and Burnout, and The Challenge of Retaining Your Vitality. To review course requirements, goals and objectives, and additional information about this course, students are encouraged to view the syllabus on the WEB.
Style: 20% Lecture, 40% Discussion, 20% Laboratory.
Grading: PLEASE NOTE: This course uses CONTRACT GRADING.

FSOS 2103 Family Policy
3 credit(s);
Instructor: Magistad,Beth Maddock
Description: This course will explore the reciprocal linkages between family functioning and public/private policies at the local, state, and federal levels. The course will focus on theoretical frameworks for conceptualizing family policy and roles professionals can play in building and implementing family policy. Students will explore how families contribute to social problems, how families are affected by these problems, and whether families should be involved in policy solutions. Students will assess the consequences policies may have for family
well-being with special attention to selected family policy issues. Course Philosophy: My intent is to engage students in the topic of family policy and to enable family policy to come alive and be seen as real and relevant to the personal and professional lives of the students. I do not intend to have the students complete the class espousing my political views, but rather to explore more fully a range of political perspectives in an attempt to determine their own views on current family issues. Students are evaluated on their ability to articulate a particular view, identify its theoretical underpinnings, support it with empirical findings, and refute alternative views.

**Style:** 30% Lecture, 5% Film/Video, 25% Discussion, 30% Small Group Activities, 10% Guest Speakers.

**Grading:** 30% reports/papers, 30% special projects, 15% quizzes, 15% written homework, 10% class participation.

**FSOS 2105 Methods in Family Research**

3 credit(s); prereq PSTL 1004 or STAT 1001 or OMS 2550 or ESPY 3264 or STAT 3011 or PSY 4801 or instr consent; Credit will not be granted if credit has been received for: FSOS 4105;

**Instructor:** Rueter, Martha A.

**Description:** This course is designed to give you the opportunity to develop the skills you need to be an intelligent consumer of scientifically based information about families. Topics covered include how to access current research on families, the scientific process and components of a well-executed family study, and social, ethical, and contextual factors that make studying families both exciting and challenging.

**Style:** 35% Lecture, 20% Discussion, 20% Small Group Activities, 25% Guest Speakers.

**Grading:** 30% mid exam, 30% final exam, 40% written homework.

**FSOS 2191 Independent Study in Family Social Science**

1-4 credit(s), max credits 12, 12 completions allowed; prereq Soph, instr consent;

**Instructor:** STAFF

**Description:** The independent study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

**FSOS 3101 Personal and Family Finances**

3 credit(s); 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:** Krasa, Mary Jo Barti

**Description:** This is a three-credit core course in the Family Social Science bachelor's major. It is required for the major and is also appropriate for those who are interested in gaining practical knowledge of personal finance. This course focuses on personal and family finances, not corporate or government finances. It will address financial pitfalls such as too much debt and investing scams. However, the focus is on financial strategies and tools, economic security, and ways to build assets.

**Style:** 100% Web Based.

**Grading:** 25% final exam, 15% quizzes. Weekly on-line discussion--15% Case Applications--15% Personal Financial Planner--30%

**Exam Format:** Multiple Choice

**FSOS 3102 Family Systems and Diversity**

3 credit(s); 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:** Xiong PhD, Zha Blong

**Description:** This course examines family systems across the lifespan using a variety of family theories (i.e., the family systems theory, the human ecology theory, the family development theory, etc.). It introduces students to diversity issues related to gender, class, ethnicity/race, sexual orientation, disability, as well as emergent family forms (i.e., cohabitation, divorce, single parenthood, and remarriage) in the context of the latest research.

**Style:** 50% Lecture, 15% Film/Video, 10% Discussion, 15% Small Group Activities, 10% Student Presentation.

**Grading:** 32% mid exam, 32% final exam, 16% reports/papers, 10% quizzes, 10% reflection paper.

**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:** This course examines perspectives on family dynamics of various racial/ethnic populations in the United States and other countries in the context of national/international economic, political, and social processes. Objectives are: a. To know the basics for understanding the family life of people in various cultures and various racial/ethnic groups as they might understand it themselves. b. To recognize personal, social, cultural, mass media, and other barriers to understanding the family life of people in various cultural, racial and ethnic groups. c. To recognize key ways family and kin are important to people in various cultural, racial and ethnic and class groups. d. To understand key dynamics and effects on families of various "isms" (racism, sexism, ethnocentrism, ageism, heterosexism), privilege, discrimination, obliviousness and ignorance. e. To understand key effects of families around the world of governmental policies of the U.S. and of other international governments. f. To understand important elements and consequences of personal and institutionalized racism.

**FSOS 3104 Global and Diverse Families**

3 credit(s); 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; population policy; and economic, monetary, and trade policy.

**Style:** 42% Lecture, 25% Film/Video, 33% Discussion.

**Grading:** 44% final exam, 11% reports/papers, 44% quizzes.

**Exam Format:** choice between (a) all short essays versus (b) mostly multiple choice questions with one or a small number of short essays

**FSOS 3101 Independent Study in Family Social Science**

1-5 credit(s), max credits 12, 12 completions allowed; prereq Jr, instr consent;

**Instructor:** STAFF

**Description:** The independent study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

**Style:** 35% Lecture, 25% Film/Video, 33% Discussion.

**Grading:** 42% Lecture, 25% Film/Video, 33% Discussion.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

FSOS 3426 Alcohol and Drugs: Families and Culture
3 credit(s); Credit will not be granted if credit has been received for: FSOS 5426; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Jankord, John Lamont
Description: This course provides an integrated overview of the psychology and sociology of psychoactive drug use, abuse, addiction, and evidenced-based treatment approaches in contemporary American society. The complex relationships between individual, group, and socio-cultural dimensions of drug using behavior will be explored. Special attention is given to variables of ethnicity, gender, sexuality, and social class. The bio-psycho-socio-cultural model is used to conceptualize addiction and its treatment. Lectures, readings, large and small group discussions and projects, and individual research and writing projects are used to advance the student knowledge and understanding.
Style: 23% Lecture, 15% Film/Video, 22% Discussion, 15% Small Group Activities, 15% Student Presentation, 10% Guest Speakers
Grading: 14% mid exam, 14% final exam, 14% reports/papers, 6% special projects, 8% attendance, 14% journal, 14% reflection paper, 7% in-class presentation, 9% class participation.

FSOS 3429 Counseling Skills Practicum I
3 credit(s); Credit will not be granted if credit has been received for: FSOS 5429;
Instructor: Meyer, Cynthia Jo
Description: This course is designed to provide students the listening skills necessary to establish a helping relationship and to promote the personal growth and development of people they will see in their future work. It helps students develop skills that are critical in helping other people, including individuals, couples and families. Through class lecture, practice, written exercises, and discussion, this course focuses both on self-awareness about one's desire to help others as well as developing basic skills in helping others.
Style: 50% Lecture, 20% Discussion, skills practice
Grading: 30% final exam, 25% reports/papers, 10% special projects, 15% class participation, 20% other evaluation. Homework assignments
Exam Format: multiple choice and short essay

FSOS 4101 Sexuality and Gender in Families and Close Relationships
3 credit(s); prerequisite: 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, development applying this information in professional settings, utilize and develop critical thinking skills to examine evidence and biases in the field of sexual science, and to clarify and confirm sexual values as well as understand the impact these values have on one's personal and professional relationships. A variety of topics will be covered including family communication and sexuality education, body image, gender development and development of gender roles, sexuality research, developing healthy sexuality in children, adolescent sexuality, attraction and intimacy, mate selection and other sexuality related topics of importance to relationships and families.
Style: 60% Lecture, 30% Discussion. small group presentations and film
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 10% special projects, 10% class participation.
Exam Format: multiple choice

FSOS 4104W Family Psychology
3 credit(s); prerequisite: 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 placed 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: 50% final exam, 60% reports/papers, 5% in-class presentation, 5% class participation
Exam Format: multiple choice and short essay

FSOS 4104W Family Psychology
3 credit(s); prerequisite: At least jr or instr consent; Meets CLE req of Writing Intensive;
Instructor: Wieling, Elizabeth
Description: Family Psychology deals with processes that take place in families of origin, families of choice, and other close relationships within diverse social contexts. The emphasis is on evaluating current research on family dynamics within and across generations. It is an advanced undergraduate course that graduate students may take with permission. It is assumed that students will already be familiar with basic social science research. Students not familiar with this prerequisite material should not enroll and should consider taking a more basic course such as FSOS 3102. Family psychology represents a significant conceptual leap in the field of psychology. Traditionally, psychologists have focused on the individual as the unit of study. Family psychologists focus on the individual in the context of intimate others. They see the individual within a social system which means their thinking and interventions are relational and contextual in nature. In this respect the family psychologist is a system thinker. The individual system (the individual), the interactional system (the couple), and the intergenerational system (family-of-origin) are all related and exert reciprocal influences on each other. Viewing the individual within the interlocking nature of these systems results in a more holistic, comprehensive, and multi-determined theory of human functioning. (p. 10) Weeks, G.R., & Nixon, G.F. (1991). Family psychology: The specialty statement of an evolving field. The Family Psychologist, 7(4), 9-18.
Style: 60% Lecture. 20% Discussion. role play
Grading: 90% mid exam, 10% class participation.

FSOS 4106 Family Resource Management
3 credit(s); prerequisite: APEC 1101 or APEC 1102 or ECON 1101 or ECON 1102 or ECON 1104 or instr consent credit will not be granted if credit received for: 3103;
Instructor: Rettig PhD, Kathryn K. D.
Description: The course examines families as important economic units in society. The content focuses on the family economic activities of management, production, consumption, investment, exchange, allocation, and distribution. These economic activities assist families in reaching levels of living that bring varying degrees of quality for family members. The course emphasis is placed on the managerial activities of low-income families and selected public policies that directly influence their economic well being. Management involves facing opportunities and solving the practical problems of every-day life, coordinating the activities of family members, and making and implementing decisions.
Style: 70% Lecture. 30% Discussion.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% class participation.

FSOS 4152 Gay, Lesbian, and Bisexual People in Families
3 credit(s); prerequisite: At least jr or instr consent;
Instructor: Craft, Shonda Marie
Description: This course is the outgrowth of the students, staff,
and faculty of the Department of Family Social Science responding to the paucity of understanding of homosexuals and bisexuals in the context of families. The course's intention is to broaden perspective and weave them into an inclusive fabric of enriched learning. Human Ecology Theory guides the examination of gay, lesbian, and 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 GLB members. Course topics will include: definitions of "family," mythologies, coming-out, identity, homophobia and heterosexism, gender, family of origin, social networks, intimacy, children, parenting, aging, and ethnicity. We will also focus on the current debate dealing with "gay marriage," the definitions of marriage, and critically examine the implications of providing marriage rights to gays and lesbians on GLB families and society as a whole. Methodological issues in research and clinical issues for serving GLB families will also be addressed.

**Style:** 40% Lecture, 20% Film/Video, 30% Discussion, 5% Small Group Activities, 5% Guest Speakers.

**Grading:** 38% reports/papers, 4% attendance, 31% reflection paper, 15% in-class presentation, 12% class participation. Up to 10 points in extra credit is available to students who attend a community event related to GLB family issues.

**FSOS 4154W Families and Aging**

3 credits(s); prerequisite At least jr or instr consent; Meets CLEQ requirement; Writing Intensive

**Instructor:** Lassig, Sara Lynn

**Description:** Aging families from diverse socio-economic and cultural groups are examined as complex multi-generational systems interacting within ever-changing social structures. Changing demographics and social/cultural forces have created a unique period where family life includes more elders than ever before. This course provides an overview of aging in our society as it relates to the family system. The emphasis will be on the family as a complex system containing multiple generations. There is a special emphasis on the critical application of family theories to major internal and external issues confronting families with elders in this stage of the life course. Intergenerational family dynamics, late life developmental transitions, relationships and caregiving for frail elders will be investigated. Death, dying, and end-of-life issues will also be examined. Ethnicity, class, and gender are aspects that will be examined from the context of issues that confront families with elders. Students will be using two texts, including the popular seller “Another Country: Navigating the Emotional Terrain of our Elders,” by Mary Pipher. Class discussion is encouraged and the classroom learning environment is built on mutual learning and teaching by both students and instructor. Guest speakers will also be a part of this course. This course is designed to expand students understanding of intergenerational aging and family issues. Students will have the opportunity to interview an older adult and explore several of the concepts discussed during the course.

**Course Objectives:** By the end of the course, students will be able to: 1. Summarize demographic trends regarding aging families within US and worldwide and describe the issues this presents world society 2. Identify issues and themes which confront researchers, practitioners and policy makers who work with older families today 3. Critique gerontological and family systems theories as they apply to various elders, their marriages and families, taking into account diverse cultures and contexts 4. Apply conceptual frameworks of symbolic interaction, developmental, systems and human ecology to understand individual, family and community responses to late life issues 5. Apply these conceptual frameworks in constructing either an individual life course narrative or programmatic proposal to address an important issue facing late life families.

**Style:** 50% Lecture, 5% Film/Video, 25% Discussion, 10% Small Group Activities, 10% Guest Speakers.

**Grading:** 40% reports/papers, 40% quizzes, 5% attendance, 5% class participation, 10% other evaluation. Webvista discussion is used for this course and accounts for part of the participation grade.

**Exam Format:** 5 quizzes, with the 4 counting and the lowest score being dropped. Make up quizzes will not be given, but rather that quiz will count as the dropped quiz.

**FSOS 4155 Parent-Child Relationships**

A-F only, 3 credits(s); prerequisite At least jr or instr consent; Writing Intensive

**Instructor:** Magistad, Beth Maddock

**Description:** This course will cover history, theories, research, and contemporary practices of parent-child relationships in diverse families across the life span. Students will apply theories studied in class to parent-child observations. The course helps to prepare students for professional work in education, social work and other human service occupations as well as to examine parenting from a personal perspective.

**Style:** 65% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 5% Student Presentation.

**Grading:** 13% mid exam, 13% final exam, 15% reports/papers, 15% special projects, 8% written homework, 26% additional semester exams, 2% in-class presentation, 7% class participation.

**Exam Format:** Multiple choice

**FSOS 4160H Honors Capstone Project**

A-F only, 2 credit(s), max credits 4; prerequisite FSoS honors; Majors only

**Instructor:** STAFF

**Description:** Individualizes the honors experience by connecting aspects of major program with special academic interests.

**FSOS 4191 Independent Study in Family Social Science**

1-4 credit(s), max credits 12, 12 completions allowed; prerequisite Sr, instr consent; Majors only

**Instructor:** STAFF

**Description:** The independent study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

**FSOS 4294 Research Internship**

1-4 credit(s), max credits 4, 1 completion allowed; prerequisite [FSOS major, at least jr] or instr consent; Majors only

**Instructor:** STAFF

**Description:** Students work on research projects with Family Social Science faculty that may include research planning, proposal writing, literature review, data collection, data coding and/or cleaning, data analysis and research reporting.

**FSOS 4296 Field Study: Working With Families**

S-N only, 1-12 credit(s), max credits 12, 4 completions allowed; prerequisite [2101, at least jr] or instr consent; Majors only

**Instructor:** Piescher PhD, Kristine Nicole

**Description:** This course consists of 180 hours of directed paraprofessional work experience related to the student's applied interest. While the unit of focus is on families throughout this course, student involvement in agencies may range from working with the Minnesota State Legislature (Family Policy) to Family Financial Counseling (Family Economics) to Nursing Homes (Family Health Care). A multitude of Minnesota State, National, and International social service agencies are utilized in providing students with an experience that best advances their thinking and working. This course is further designed to integrate the whole of a student's undergraduate work by requiring students to complete a professional portfolio suitable for use during job interviews upon graduation. To review course requirements, goals and objectives, and additional information about this course, students are encouraged to view the syllabus on the WEB. This course is for Family Social Science undergraduate majors only.

**Style:** 100% Discussion.

**Grading:** 5% in-class presentation, 5% laboratory evaluation, 90% other evaluation; Consensual work in one agency.

**FSOS 5014 Quantitative Family Research Methods**

3 credit(s); prerequisite Grad student or instr consent; Majors only

**Instructor:** Von Korff, Lynn

**Description:** Family research methods, issues associated with multiple levels of analysis. Conducting family-focused data...
analyses using basic/intermediate methods (through ANOVA and multiple regression), including power analysis. By the end of the semester, students will... understand the special issues associated with family research, and research, such as lack of independence of observations and multiple levels of analysis *evaluate a variety of quantitative family research articles published in journals such as the Journal of Marriage and Family, with an emphasis on understanding methods and results sections "formulate family related research questions in order to work with an existing quantitative data set "use SPSS successfully in data analysis (through FSOS 5015 1 credit SPSS lab) "conduct family-focused data analyses, using basic and intermediate methods (through ANOVA and multiple regression), including power analysis "prepare written reports, following APA style "deepen understanding of the ethical issues involved in family research, including functions of IRB and HIPAA, *understand the strengths, limitations, and appropriateness of alternative methods: direct observation, interviewing, self-report questionnaires, rating scales (M) "develop the skills that will lead directly to the production of a successful masters thesis, critical review paper, and/or special project

FSOS 5015 Family Research Laboratory
S-N only, 1 credit(s); prereq Grad student or instr consent 
Instructor: Schulz, Cathy L
Description: This course is designed to prepare students to conduct and document quantitative research using SPSS. Students will learn SPSS syntax through hands-on instruction completing a series of self-paced SPSS exercises. The sessions include individual and group instruction. Objectives of this course are to (1) develop sound quantitative research practices, such as preparing data for analyses, documenting the research process, and managing SPSS computer files, (2) learn methods of generating SPSS syntax, (3) demonstrate the ability to read, interpret, and describe statistical procedures that address specific research questions, and (4) improve analytical research skills.

FSOS 5150 Special Topics in Family Social Science: Citizen Professional Work w/ Families & Communities
3 credit(s), max credits 24, 6 completions allowed; prereq instr consent
Instructor: Doherty, William J
Description: The theory and practice of democratic professionalism as it is emerging in professions dealing with family, health, and social problems. Application will be made to a wide range of professions, including health care, education, social services, therapy, and law. Students will learn to plan and evaluate citizen engagement projects in their area of focus and in communities they have access to.
Style: 20% Lecture, 20% Discussion, 20% Small Group Activities, 20% Student Presentation, 10% Guest Speakers, 10% Web Based.
Grading: 25% reports/papers, 35% special projects, 30% reflection paper, 10% class participation.

FSOS 5193 Directed Study in Family Social Science
1-6 credit(s), max credits 6, 1 completion allowed; prereq FSoS or grad student in related field
Instructor: STAFF
Description: The directed study course is for field, library, and laboratory research in family social science. The topics, course content, and readings for the course are developed under the guidance of the supervising faculty member. Prior registration approval is necessary.

FSOS 5426 Alcohol and Drugs: Families and Culture
3 credit(s); Credit will not be granted if credit has been received for: FSOS 3426
Instructor: Jankord, John Lamont
Description: This course provides an integrated overview of the psychology and sociology of psychoactive drug use, abuse, addiction, and evidenced-based treatment approaches in contemporary American society. The complex relationships between individual, group, and socio-cultural dimensions of drug use and behavior will be explored. Special attention is given to variables of ethnicity, gender, sexuality, and social class. The bio-psycho-socio-cultural model is used to conceptualize addiction and its treatment. Lectures, readings, large and small group discussions and projects, and individual research and writing projects are used to advance the student knowledge and understanding.
Style: 23% Lecture, 15% Film/Video, 22% Discussion, 15% Small Group Activities, 15% Student Presentation, 10% Guest Speakers.
Grading: 14% mid exam, 14% final exam, 14% reports/papers, 6% special projects. 8% attendance, 14% journal, 14% reflection paper, 7% in-class presentation, 9% class participation.

FSOS 8033 Problems in Families
3 credit(s): prereq [8032 or equiv], instr consent
Instructor: Craft, Shonda Marie
Description: The focus of this course is the exploration of specific mental and physical health disorders and relational difficulties experienced in the context of family systems. Students will learn about contemporary systemic approaches of couple and family therapy that have been empirically and clinically tested in the treatment of these disorders and difficulties. A major area of emphasis in each class will be to integrate issues related to cultural diversity (e.g., gender, race, ethnicity, class, sexual/romantic orientation, ability/disability, etc.) throughout the course. Critical thought will be required to address diversity vis-a-vis theoretical frameworks presented in the course. Lectures, class activities, group discussions, and individual assignments will be used to promote and enhance critical thinking skills related to course material.

FSOS 8037 Ethical, Legal, and Professional Issues in Mental Health Practice: Issues with Couples and Families
A-F only, 2-10 credit(s), max credits 10, 1 completion allowed; prereq [8032, practicum or internship exper] or [grad student in cooperating mental health practice prog who has completed 1 course on therapy with children]
Instructor: Harris, Steven Michael
Description: Students taking this class will gain and demonstrate their mastery of Ethical decision making in Marriage and Family Therapy. Special emphasis will be placed on ethical dilemmas that arise when more than one person is in the therapy room, or when a couple or family is the client. The AAMFT Code of Ethics will be the main focus of the course. Students must enroll in 3 credit hours for this course to count toward licensure as an MFT in the State of Minnesota.
Style: 25% Lecture, 25% Film/Video, 50% Discussion.
Grading: 50% final exam, 50% class participation.
Exam Format: Exams given coincide with AAMFT exams required for Continuing Education requirements.

FSOS 8047 Integrative Research Seminar
3 credit(s): prereq 8001 or equiv, 8013 or equiv, 8014 or equiv
Instructor: Retig, PhD, Kathryn K. D.
Description: The course involves integrating theoretical, methodological, and practice/outreach issues in writing dissertations, papers for publication, and/or proposals for research. Students submit proposals, at the beginning of the semester, outlining the research paper or proposal to be written and refined during the semester. Work during the semester includes writing several drafts of the paper/proposal after receiving critiques from professor and class members. Examples of published papers may be used as examples for both discussion and critique. The course is presented in seminar format with active participation of students in contributing readings, writing, critique, discussions, and evaluations. The professor acts as facilitator with the students to maximize the content covered.
Style: 5% Lecture, 10% Discussion, 10% Small Group Activities, 75% Student Presentation. Guest speakers will supplement.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% problem solving. Student leadership will also determine grade.

FSOS 8105 Family Gerontology
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 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010.

FSOS 8296 Family Therapy Internship
S-N only, 1-21 credit(s), max credits 21, 1 completion allowed; prereq 8295, marriage and family therapy student; Instructor: STAFF
Description: This course is designed to provide you with supervision during your internship experience. Frequency, orientation, and supervision structure will be determined in conjunction with your supervisor.

FSOS 8297 Supervision of Supervision
S-N only, 1-3 credit(s), max credits 12, 12 completions allowed; prereq MFT student, instr consent; Instructor: Minor,Brier Miller
Description: This is an experiential practicum course that covers two semesters, in which students have opportunities providing clinical supervision of masters students or masters level therapists in group or individual settings. During the supervision practicum, students will engage in 18 hours (2 hours per month) of “supervision of supervision” or mentoring of their own practicum experience. This meets partial requirements for becoming AAMFT Approved Supervisors. Style: 75% Laboratory, 25% Small Group Activities. This practicum experience can be tailored to the students’ needs and time constraints. Grading: 50% attendance, 50% class participation. This is a pass/fail class that is graded on participation through supervision practicum and mentoring of that experience.

FSOS 8560 Advanced Clinical Topics in Marriage and Family Therapy
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq FSoS PhD student or instr consent; Instructor: Meyer,Cynthia Jo
Description: FSoS 8560 is a one-credit course open to FSoS graduate students focusing on the development of skills to independently teach undergraduates. Students will meet individually with the instructor and/or as a group and develop an individual plan to support the following: development of a course syllabus, lesson plans, measurable course goals and outcomes, assignments, tests, and lectures. Additional goals and strategies to support the students’ independent teaching will occur as appropriate.

FSOS 8150 Topics in Family Social Science
A-F only, 1 credit(s), max credits 6, 6 completions allowed; prereq FSoS grad student or instr consent; Instructor: Meyer,Cynthia Jo
Description: FSoS 8150 is a one-credit course open to FSoS graduate students focusing on the development of skills to independently teach undergraduates. Students will meet individually with the instructor and/or as a group and develop an individual plan to support the following: development of a course syllabus, lesson plans, measurable course goals and outcomes, assignments, tests, and lectures. Additional goals and strategies to support the students’ independent teaching will occur as appropriate.

FSOS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 completions allowed; prereq Doctoral student in FSoS or related field; Instructor: STAFF
Description: Directed study for a doctoral student in FSoS or related field.

FSOS 8295 Family Therapy Practicum
S-N only, 1-12 credit(s), max credits 12, 1 completion allowed; prereq Marriage and family therapy student; Instructor: STAFF
Description: This course is designed to provide you with group supervision in addition to the supervision you receive at your clinical placement site. Bi-monthly supervision will consist of regular check-ins and case presentations as well as clinical discussions guided by a range of conceptual and theoretical frameworks, clinical models, and areas of learning specific to your developmental needs as a clinician.

FINA 3001 Finance Fundamentals
A-F only, 3 credit(s); prereq ACCT 2050, OMS 2550; Credit will not be granted if credit has been received for: APEC 3501; Instructor: STAFF

FINA 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: Reik,John W
Description: This course is a printed distance learning section offered through Online and Distance Learning, College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Finance 3001 is a challenging, college-level survey course. It covers a broad range of topics.
of existing business finance topics. It's important for you to understand that this is not an easy course, and that it assumes you already have a respectable understanding of financial accounting concepts. If you don’t particularly like the “numbers” part of business, or if you’re a little rusty in accounting, then this will be a particularly challenging course for you. You may want to take some time before you begin this course to brush up on financial accounting and simple algebra. However, if you work hard and have the appropriate background, this course will give you access to a vast new world of business knowledge and will make every-day business information much more useful and worthwhile. The study notes for each lesson in this course contain my lecture notes for the classroom-based version of this course offered by the University’s Carlson School of Management. You, therefore, have access to most of what I would say or do in the classroom setting for this course. However, you do not have the benefit of talking to other students or sharing in their observations and comments. Because of this, it is important for you to carefully read both the textbook and the lessons in the study guide before doing the lesson assignments or taking the course exams. Only then can your learning experience be equivalent to attending a classroom version of this course. Please be aware of this as you progress through this course.

Style: This is a printed (correspondence)distance learning section.

Grading: 40% mid exam, 60% final exam. --Midcourse exam covers lessons 1 through 5 --Final exam covers lessons 1 through 5 and 7 through 11

Exam Format: Supervised, in-person (not online) exams.

FINA 4221 Principles of Corporate Finance
A-F only, 2 credit(s); prereq 3001; Instructor: STAFF
Description: Course Provides and introduction to the principles of and methods used in Financial Markets. Basic framework for valuing fixed income securities. Term structure on interest rates, forward rates, principles of fixed-income valuation. Surveys treasury, corporate, municipal, securitization markets.

Style: 90% Lecture, 10% Discussion.

Grading: 45% final exam, 5% special projects, 20% quizzes, 20% written homework. These percentages are subject to change and provided to give the student a rough idea of the weighting of course elements.

FINA 4229 Corporate Cases Capstone
A-F only, 2 credit(s); prereq [4221 or 4241], 4422, [ACCT 5100 or ACCT 5101] credit will not be granted if credit already received for: Fina 4422; Instructor: Meschke, Felix
Description: Student may contact the instructor or department for information.

FINA 4321 Portfolio Management and Performance Evaluation
A-F only, 2 credit(s); prereq 3001; Instructor: STAFF
Description: Introduces investment environment and concepts used to manage security portfolios. Portfolio/security risk/return tradeoffs, portfolio diversification, asset allocation, active portfolio management versus indexed portfolios, portfolio performance evaluation.

FINA 4329 Security Analysis Capstone
A-F only, 2 credit(s); prereq [4221 or 4241], 4422, [ACCT 5100 or ACCT 5101]; Instructor: Legg, Thomas D
Description: Student may contact the instructor or department for information.

FINA 4422 Financial Modeling
A-F only, 2 credit(s); prereq 4221, [ACCT 5100 or ACCT 5101]; Instructor: Legg, Thomas D
Description: Student may contact the instructor or department for information.

FINA 4522 Options in Corporate Finance
A-F only, 2 credit(s); prereq 4221, 4321, CSOM [jr or sr]; Instructor: Yu, Jianfeng
Description: Student may contact the instructor or department for information.

FINA 4523 Derivatives I
A-F only, 2 credit(s); prereq 4121, 4321, CSOM [jr or sr]; Instructor: Graveline, Jeremy J
Description: This course provides an introduction to financial derivatives, their valuation, and their use by corporations, investment managers, and financial institutions to manage financial risk. The course makes extensive use of the no-arbitrage principal and the binomial model for options to develop a solid foundation for understanding the value and risks in derivatives markets. The following topics are covered: - Payoffs on derivatives contracts such as forward, futures, and options on stocks, commodities, and exchange rates. - Institutional differences between standardized derivatives that trade on exchanges and customized derivatives that trade in over-the-counter markets. - Risk management and investment strategies using forwards, futures, and options. - Economic arguments for and against managing financial risk in corporations. - Basic statistical tools, such as Value-At-Risk, for measuring financial risk. - Replicating, valuing, and hedging financial forwards. - The impact of storage costs, lease rates, and convenience yields on the prices of commodity futures. - Arbitrage pricing bounds for options. - Replicating, valuing, and hedging options using the binomial model. - The risk-neutral approach to valuing options. - Introduction to the multi-period binomial tree model for valuing options.

FINA 4529 Derivatives II Capstone
A-F only, 2 credit(s); prereq 4523, CSOM sr; Instructor: Graveline, Jeremy J
Description: This course is a continuation of FINA 4523. It covers more advanced models for pricing and hedging options, swaps, and credit derivatives. Course topics include: - The multi-period binomial tree model for replicating, valuing, and hedging options on stocks, commodities, and exchange rates. - The risk-neutral approach to valuing options in a multi-period binomial tree. - Valuing options on dividend-paying assets. - Pricing and hedging American options in a multi-period binomial tree. - The real options approach to making investment decisions. - Pricing and hedging with the Black-Scholes option pricing model. - Option valuation via Monte Carlo simulation. - Option pricing when the volatility of the underlying asset is stochastic. - Replication and valuation of interest rate, currency, and commodity swaps. - Merton’s structural model for default risk and defaultable bond prices. - Valuation of credit default swaps, basket default swaps, and collateralized debt obligations (CDOs) using reduced-form models of credit risk (risk-neutral default intensities).

FINA 4621 The Global Economy (Macro)
A-F only, 2 credit(s); prereq 3001; Instructor: Bazdresch, Howard
Description: This course is a survey of macroeconomics from a global perspective. Macroeconomic policies in emerging markets and developed countries are covered. International dimensions of corporate finance are discussed. Exchange rate determination mechanisms, exchange rate regimes, the interest rate parity conditions, and a country’s international capital and commercial balances are analyzed. Students who have completed ECON 3102 Intermediate Macro Economics Theory should not enroll in FINA 4621.

Style: 40% Lecture, 25% Discussion, 25% Small Group Activities, 10% Student Presentation.

FINA 4622 International Finance
This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
FINA 6322 Financial Performance and Security Analysis
A-F only, 2 credit(s); prereq MBA 6230, MBA student; Instructor: Nantell, Timothy J
Description: Theoretical/applied understanding of corporate financial decisions. Adjusted present value, economic value added options. Impact of financing decisions on real asset valuation, managerial incentives, corporate strategy.

FINA 6241 Corporate Finance Analysis and Decisions
A-F only, 4 credit(s); prereq MBA 6230, MBA student; Instructor: STAFF
Description: Theory/practice of efficiently managing working capital, fixed assets. Emphasizes mergers/acquisitions, corporate restructuring, real options. Use of derivatives as financing tools, in deal structure.

FINA 6222 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 6341 Derivatives, Futures, and Options
A-F only, 2 credit(s); prereq 6622, MBA student; Instructor: Graveline, Jeremy J
Description: This course is a continuation of FINA 6622. Financial Risk Management. It covers more advanced models for pricing and hedging options, swaps, and credit derivatives. Course topics include: - The multi-period binomial tree model for replicating, valuing, and hedging options on stocks, commodities, and exchange rates. - The risk-neutral approach to valuing options in a multi-period binomial tree. - Valuing options on dividend-paying assets. - Pricing and hedging American options in a multi-period binomial tree. - The real options approach to making investment decisions. - Pricing and hedging with the Black-Scholes option pricing model. - Option valuation via Monte Carlo simulation. - Option pricing when the volatility of the underlying asset is stochastic. - Replication and valuation of interest rate, currency, and commodity swaps. - Merton's structural model for default risk and defaultable bond prices. - Valuation of credit default swaps, basket default swaps, and collateralized debt obligations (CDOs) using reduced-form models of credit risk (risk-neutral default intensities).

FINA 6621 International Financial Management
A-F only, 2 credit(s); prereq MBA 6230, MBA student; Instructor: Singha, Raj
Description: This course provides an introduction to financial derivatives, their valuation, and their use by corporations, investment managers, and financial institutions to manage financial risk. The course makes extensive use of the no-arbitrage principal and the binomial model for options to develop a solid foundation for understanding the value and risks in derivatives markets. The following topics are covered: - Payoffs on derivatives contracts such as forward, futures, and options on stocks, commodities, and exchange rates. - Institutional differences between standardized derivatives that trade on exchanges and customized derivatives that trade in over-the-counter markets. - Risk management and investment strategies using forwards, futures, and options. - Economic arguments for and against managing financial risk in corporations. - Basic statistical tools, such as Value-At-Risk, for measuring financial risk. - Replicating, valuing, and hedging financial forwards. - The impact of storage costs, lease rates, and convenience yields on the prices of commodity futures. - Arbitrage pricing bounds for options. - Replicating, valuing, and hedging options using the binomial model. - The risk-neutral approach to valuing options. - Introduction to the multi-period binomial tree model for valuing options.

FINA 6801 Finance Independent Study
1-6 credit(s), max credits 6, 1 completion allowed; prereq MBA student; Instructor: STAFF
Description: Independent Study

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 8894 Directed Research in Finance
1-8 credit(s), max credits 16, 16 completions allowed; prereq Business admin PhD student or instr consent; Instructor: STAFF
Description: Problems or developments of special interest to the student.
Description: Individualized directed research on a project of interest to the student, approved and advised by faculty.

**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: Sayas, Francisco Javier
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: Jones, Philip Andrew
Description: Student may contact the instructor or department for information.

**FM 5092 Computation, Algorithms, and Coding in Finance II**
3 credit(s); prereq 5091, grad MFM major, program director approval;
Instructor: Prouty, Christopher William
Description: Student may contact the instructor or department for information.

**Finnish**

205 Folwell Hall

**FIN 1002 Beginning Finnish**
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: FIN 4002;
Instructor: 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 “Supisuomena” (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: 18% reports/papers, 14% quizzes, 35% 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 "Finnish: An Essential Grammar." 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. Qualifying students may register for this course under the 4004 designation (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 evaluations, tests, 12% oral interviews

Exam Format: Short answer, essay, matching

### Fisheries and Wildlife

**200 Hodson Hall**

**FW 2002 Threatened and Endangered Wildlife: Causes, Consequences, and Future Conservation**

3 credit(s); prereq Intro biology course; Meets CLE req of Environment Theme;

Instructor: Gutierrez, Ralph J

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 the 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 3565 Fisheries and Wildlife Ecology and Management: Field Trip**

A-F only, 2 credit(s); prereq instr consent

Instructor: Kapfer, Paul Michael

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

**FW 4101 Herpetology**

4 credit(s); prereq BIOL 1001 or BIOL 2012;

Instructor: Kozak, Kenneth H.

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

**FW 4101 Herpetology**

4 credit(s); prereq BIOL 1001 or BIOL 2012;

Instructor: Kozak, Kenneth H.

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

**FW 4102 Principles of Conservation Biology**

3 credit(s); prereq BIOL 1009 or equiv; Biol 3407 recommended; Meets CLE req of Environment Theme;

Instructor: Oberhauser, Karen S

Description: This course examines the ecological, economic, and social principles that form the basis of Conservation Biology. The course is organized into three learning modules: 1) fundamental theories in the applicable disciplines, 2) Conservation Biology's principles and the major threats to biodiversity, and 3) an exploration of various "hot" topics, in detail, often with guest speakers.

Style: 40% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 2% Student Presentation, 10% Guest Speakers, 3% Service Learning.

Grading: 10% mid exam, 15% final exam, 15% reports/papers, 10% special projects, 10% quizzes, 10% written homework, 10% attendance, 5% journal, 5% reflection paper, 5% in-class presentation, 5% class participation.

**FW 4103 Principles of Wildlife Management**

3 credit(s); prereq Intro biology course, jr or sr;

Instructor: Gutierrez, Ralph J

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

**FW 4200H Honors Seminar**

1 credit(s); prereq FW upper div honors, instr consent;

Instructor: STAFF

Description: Current topics presented by faculty/students. Lecture/discussion.

**FW 4291 Independent Study: Fisheries**

1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;

Instructor: STAFF

Description: Individual field, library, and laboratory research in fisheries. Primarily for majors. Students work on special projects. Individual field, library, and lab research in fisheries biology.

Style: special projects and individual directed study

Grading: 100% reports/papers. 100% written reports/papers; may have occasional exceptions

**FW 4391 Independent Study: Wildlife**

1-5 credit(s), max credits 5, 1 completion allowed; prereq instr consent;

Instructor: STAFF

Description: Individual field, library, and laboratory research in wildlife. Primarily for majors. Students work on special projects. Individual field, library, and lab research in fisheries biology.

Style: special projects and individual directed study; visitation to field sites if appropriate

Grading: 100% reports/papers.

**FW 4401 Fish Physiology and Behavior**

2 credit(s); prereq 3136 or 5136 or instr consent;

Instructor: Sorensen, Peter William

Description: Fish are the most diverse and largest group of vertebrates on our planet. This course explores the biological basis of their success (their physiology and behavior), touching upon aspects of special importance to their conservation and management. It is natural followup to Fish Biology (FW3136). Topics include fish movement and migration, feeding, schooling, sensory systems, communication, growth and bioenergetics, reproduction and pheromones, and ecotoxicology. The course relies entirely upon electronic reserve material for readings and students are offered the opportunity to write a short paper and to participate with graduate students in a 1 credit discussion group. The course is taught concurrently with FW5401.

Style: 70% Lecture, 20% Discussion, 10% Guest Speakers.

Grading: 30% mid exam, 30% final exam, 25% reports/papers, 15% in-class presentation.
FW 4801H Honors Research  
A-F only, 2 credit(s); prereq FW upper div honors, instr consent;  
Instructor: STAFF  
Description: Independent research project supervised by faculty member.

FW 4802H Honors Research  
A-F only, 2 credit(s); prereq FW upper div honors, instr consent;  
Instructor: STAFF  
Description: Completion of honors thesis. Oral report.

FW 5051 Analysis of Populations  
4 credit(s); prereq [[BIOL 3407 or BIOL 3400W], [4001 or STAT 3011 or ESPM 3012], sr] or instr consent;  
Instructor: Arnold, Todd W.  
Description: This course will cover the basics of experimental design and sampling techniques as they relate to wildlife conservation and terrestrial ecology. We will examine methods for estimating population size, population change, and population vital rates (i.e., components of birth, death, immigration, and emigration rates). It is appropriate for seniors or graduate students in FWCB, EEB, Cons Bio, ESPM and others who have a basic understanding of ecology and statistics. The first hour of each class session will be lecture format and the remainder will involve discussion and/or hands-on problem solving.  
Style: 65% Lecture, 30% Laboratory, 5% Student Presentation.  
Grading: 17% mid exam, 17% final exam, 50% reports/papers, 16% written homework. Final exam is non-cumulative.  
Exam Format: Exams will consist of short answer, problem solving, and essay questions.

FW 5292 Special Lectures: Fisheries: Advanced Topics and Discussions in Fish Biology  
1 credit(s), max credits 15, 3 completions allowed; prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FW 4292;  
Instructor: Sorensen, Peter William  
Description: Student may contact the instructor or department for information.

FW 5401 Fish Physiology and Behavior  
2 credit(s); prereq [[3136 or 5136], grad student] or instr consent;  
Instructor: Sorensen, Peter William  
Description: Fish are the most diverse and largest group of vertebrates on our planet. This course explores the biological basis of their success (their physiology and behavior), touching upon aspects of special importance to their conservation and management. It is a natural followup to undergraduate ichthyology courses. Topics include fish movement and migration, feeding, schooling, sensory systems, communication, growth and bioenergetics, reproduction and pheromones, and ecotoxicology. The course relies entirely upon electronic reserve material for readings and students are required to write a mock research proposal and participate in a 1 credit discussion group (FW5292). The course is taught concurrently with FW4401.  
Style: 70% Lecture, 20% Discussion, 10% Guest Speakers.  
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.  
Exam Format: short answer/essay

FW 5604W Fisheries Ecology and Management  
3 credit(s); prereq EEB 3603 or EEB 4601 or EEB 5601; Meets CLE req of Environment Theme; meets CLE req of Writing Intensive;  
Instructor: Newman, Raymond M  
Description: This is a senior-level major and introductory graduate course; a background in resource ecology is assumed. The course provides a basic coverage of fisheries, ecology and management, with an emphasis on human intervention and regulation of use to achieve management objectives for managed species of interest. We will cover the tools of fisheries management that may be implemented to achieve specific objectives and goals and how to assess their efficacy. The course starts with a general coverage of applied limnology and fish ecology, followed by management approaches and planning, the development of an information base and identification of problems. Approaches to manage fishery populations and habitats will then be covered along with methods to assess management outcomes. Applications to specific fisheries will be demonstrated. A series of homework tasks and problems will be used to develop real-world problem solving skills; problem sets and readings from the primary literature will be discussed in periodic sessions. A paper, that outlines and critiques current management of specific fisheries resource and proposes new strategies, is required; the first draft will be graded and returned for final revision.  
Style: 85% Lecture, 15% Discussion.  
Grading: 33% mid exam, 22% final exam, 28% reports/papers, 2% class participation, 15% problem solving.  
Exam Format: Combination - short answer, true/false, analysis, essay

FW 5625 Wildlife Handling and Immobilization for Research and Management  
S-N only, 2 credit(s); prereq General biology, [grad student or vet med student or FW sr];  
Instructor: Smith, James L David  
Description: Student may contact the instructor or department for information.

FW 8200 Seminar  
S-N only, 1-4 credit(s), max credits 8, 4 completions 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 completion allowed;  
Instructor: Nelson, Kristen C  
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries  
1-4 credit(s), max credits 4, 1 completion allowed;  
Instructor: Pereira, 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 completion 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 completion 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 completion allowed;  
Instructor: Kapuscinski, 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 completion 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 completion 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 completion 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 completion 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 completion 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 completion 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 completion 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 completion allowed;
Instructor: Simons,Andrew M
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 completion 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 completion allowed; prereq instr consent;
Instructor: Mech.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 completion 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 completion allowed; prereq instr consent;
Instructor: Perry,Jim A
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;
Instructor: Cohen,Yosef
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;
Instructor: Siniff,Donald B
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent;
Instructor: Cooper,James A
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 completion 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 completion allowed; prereq instr consent;
Instructor: Cooper,James A
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 completion 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 completion allowed; prereq instr consent;
Instructor: Gutierrez,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 completion allowed; prereq instr consent;
Instructor: Franklin,Alan
Description: Student may contact the instructor or department for information.
FSCN 1012 Sports Nutrition
2 credit(s);
Instructor: Brady,Linda J
Description: This course is completely online and addresses: 1. physiological function and metabolic fate of nutrients ingested by active individuals to improve athletic performance and maintain weight; 2. impact on physiology of ergogenic aids and dietary supplements. An online class orientation via UM Connect will be available on the class website, as well as the syllabus and documents explaining website function. Weekly multiple choice quizzes on one chapter are completed online. Short answer critical thinking questions are submitted via the class website each week also. Student materials available online include study guides, power point presentation, and UM Connect presentation for each chapter. Students with some biology or physiology background will have some advantage, as nutrition is multi-disciplinary. This course functions best for students who can manage their time effectively and are comfortable with a mix of multiple choice quizzes and "thought" questions that are more open ended; it does not function well as a 2 credit "add on" to an already busy schedule. We have assignments due the first week, so students who add the class later have some disadvantage.
Style: 100% Web Based. Web based class
Grading: 50% quizzes, 50% reflection paper. short answer critical thinking questions
Exam Format: Quiz format is multiple choice

FSCN 1013 Dietary Supplements: scientific, regulatory, and cultural aspects
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Brady,Linda J
Description: The course will cover: 1) Use of dietary supplements in the U.S.; how U.S. public demand drives industry and governement. 2) The development and implementation of the law--Dietary Supplements Health and Education Act. 3) DSHEA and "safety testing," and risk assessment: How much safety data is needed before marketing? 4) Ethics of marketing. 5) FTC responsibilities and the ethics of advertising. 6) Other cultures as sources of supplements; transference of use between cultures. 7) Issues and ethics of intellectual property rights of indigenous cultures. 8) Rational use of dietary supplements for health and sports performance; ethical decisions in use for athletic performance. 9) Use of supplements for weight loss. A UM Connect audio video orientation is provided to explain the syllabus and assignment submission and academic integrity; registered students will receive information on orientation about a week before classes start. For each weekly unit, an online UM Connect presentation of the week's power point is also available to complement weekly readings. Students critically evaluate information on supplements and submit weekly homework and critical thinking questions via the class website; these are graded online and returned. This course functions best for students who can manage their time effectively and are comfortable with a mix of factual questions and "thought" questions (critical thinking) that are more open ended and require students to move beyond the readings into higher level thinking. There is no textbook; readings are online.
Style: 100% Web Based. totally web based
Grading: 50% written homework, 50% reflection paper.
Exam Format: Homework and critical thinking (reflection) questions

FSCN 1102 Food: Safety, Risks, and Technology
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Labuza PhD,Ted Peter
Description: 1 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 mechanisms for enforcing 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

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. Much of material covered in class is available in the text and power points posted on the class website, and UM Connect presentations of the power points, but additional information, examples, and current events will be given in class. 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.
Style: 90% Lecture, 10% Small Group Activities. small group discussion
Grading: 25% final exam, 50% quizzes, 25% other evaluation.
Exam Format: multiple choice
FSCN 1112 Principles of Nutrition
3 credit(s); prerequisite High school [biology, chemistry]; Meets CLE req of Environment Theme;
Instructor: Willis, Holly Jo
Description: Student may contact the instructor or department for information.

FSCN 3615 Sociocultural Aspects of Food, Nutrition, and Health
3 credit(s); prerequisite 1112; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Pokhriyal,Urvashi
Description: Student may contact the instructor or department for information.

FSCN 4096 Professional Experience Program: Internship
A-F only, 1-4 credit(s), max credits 24, 6 completions allowed; prerequisite FSCN undergrads, instr consent; UC only;
Instructor: Cariad-Barrett, Anna
Description: Student may contact the instructor or department for information.

FSCN 4121 Food Microbiology
OPT No Aud, 3 credit(s); prerequisite BIOC 3021, [2021 or VBS 2032 or MCB 3301];
Instructor: Diez-Gonzalez, Francisco
Description: Student may contact the instructor or department for information.

FSCN 4291 Independent Study
1-4 credit(s), max credits 4, 1 completion allowed; prerequisite Undergrads, instr consent;
Instructor: STAFF
Description: Independent Study is for one-to-one faculty student work agreed upon food science related topics. Prior registration approval is necessary and can be obtained by contacting Sue P. at 624-6753. Contracts are used to outline the proposed projects.

FSCN 4311 Chemical Reactions in Food Systems
2 credit(s); prerequisite 4112, 4312W;
Instructor: Csallany, A Saari
Description: Student may contact the instructor or department for information.

FSCN 4332 Food Processing Operations
A-F only, 3 credit(s); prerequisite 4331 or BAE 4744;
Instructor: Smith, David Eugene
Description: Student may contact the instructor or department for information.

FSCN 4349 Food Science Capstone
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prerequisite Concurrent enrollment in another [4xxx or 5xxx] FSCN course, food science major, sr;
Instructor: Vickers, Zata M
Description: Student may contact the instructor or department for information.

FSCN 4613 Experimental Nutrition
2 credit(s); prerequisite 4612, BIOC 3021, Stat 3011;
Instructor: Gallaher, Daniel David
Description: This course provides a laboratory experience in chemical and biochemical methods of analysis of nutritional status. The majority of lab experiences will be conducted to determine the student's own nutritional status. Students develop an understanding of the usefulness of various biochemical parameters in ascertaining nutritional status, become familiar with a variety of laboratory equipment and procedures, develop an understanding of the theory of operation of a number of laboratory instruments, and learn the principles involved in a number of chemical and biochemical procedures. There is one lecture and one laboratory period per week. The course is intended primarily for upper division dietics and nutrition science majors and beginning nutrition graduate students. Students must have taken courses in biochemistry and physiology. A course in statistics is highly recommended.
Style: 25% Lecture, 70% Laboratory, 5% Web Based.
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 20% other evaluation. Final exam is cumulative. Other evaluation is web-based quizzes on laboratory preparation material before each laboratory.
Exam Format: Multiple choice.

FSCN 4614 Community Nutrition
3 credit(s); prerequisite 1112; Meets CLE req of Cultural Diversity Theme;
Instructor: Damann, Kristen Leigh
Description: Student may contact the instructor or department for information.

FSCN 4622 Nutritional Toxicology, the basic science of diet-related toxins
A-F only, 3 credit(s); prerequisite BIOC 3021; designed for students majoring in [nutrition or food science or toxicology];
Instructor: Chen, Chi
Description: Student may contact the instructor or department for information.

FSCN 4666 Medical Nutrition Therapy II
A-F only, 3 credit(s); prerequisite 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); prerequisite 3732, Mgmt 3001; Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Marquart, Len
Description: Student may contact the instructor or department for information.

FSCN 5481 Sensory Evaluation of Food Quality
2 credit(s); prerequisite 3102, STAT 3011;
Instructor: Vickers, Zata M
Description: Student may contact the instructor or department for information.

FSCN 8310 General Seminar
S-N only, 1 credit(s), max credits 2; prerequisite 4331 or BAE 4744;
Instructor: Smith, David Eugene
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; prerequisite 4111, 4121, dept consent;
Instructor: Peterson, Devin Grant
Description: Student may contact the instructor or department for information.

FSCN 8330 Research Topics
1 credit(s), max credits 6, 6 completions allowed;
Instructor: Cariad-Barrett, Anna
Description: Student may contact the instructor or department for information.

FSCN 8335 Carbohydrate Chemistry in Food and Nutrition
2 credit(s); prerequisite 4112;
Instructor: Bunzel, Mirko
Description: Student may contact the instructor or department for information.

FSCN 8391 Independent Study: Food Science
1-4 credit(s), max credits 6, 6 completions allowed; prerequisite instr consent;
Instructor: Cariad-Barrett, Anna
Description: Student may contact the instructor or department for information.
FR 1901 Freshman Seminar: Recreational Trail Design
3 credit(s); max credits 3, 1 completion allowed; prereq freshman; Meets CLE req of Environment Theme;
Instructor: Baughman,Mel J.
Description: Students will build an awareness of ecological principles that underpin the development of environmentally sustainable trails in different natural settings and biomes. Trail systems must be designed to offer different recreational activities (e.g., hiking, snowmobiling), meet the experiential needs of users with different ethnic and cultural backgrounds, and provide different types of experiences (from rugged wilderness trails to trails for persons with disabilities). Trails should be designed to learn about the natural world without damaging the natural environments through which they pass. Topics include: application of ecological principles, assessing user needs; trail planning; where to place trails in the landscape; construction standards; clearing rocks and trees; shaping the tread; structures for crossing obstacles (e.g., rivers, wetlands, steep slopes, boulder fields); sign information and design; funding sources; maintenance; trail crew management; and trail user manuals. Pre-requisite: enjoy hiking, bicycling, horseback riding, skiing, snowmobiling, ATVs, or canoeing. Weekend field trip required.

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: Frilech,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 and Modeling Forests
A-F only, 3 credit(s); prereq ESPM 3012 or STAT 3011; Credit will not be granted if credit has been received for: FR 5218;
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 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: The course is designed to provide 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 mapping and monitoring natural resources, environment and land use. Both photographic and digital sensing approaches are considered. The laboratory provides hands-on experience in interpretation of aerial photographs and an introduction to digital image analysis techniques, along with a practical / team project using remote sensing.

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: Management of forest ecosystems for sustaining ecological integrity, soil productivity, water quality, wildlife habitat, biological diversity, commodity production in landscape context. Silvics, forest dynamics, disturbances, regeneration, restoration, silvicultural systems. Ramifications of management choices.

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.
Style: 80% Lecture, 5% Film/Video, 5% Small Group Activities, 10% Student Presentation.
Grading: 20% mid exam, 20% final exam, 15% reports/papers, 45% written homework.
Exam Format: The two midterm take home exams are both short essay format. The final exam is a mixture of T/F, short answer, matching, and fill-in-the-blank questions.

FR 3471 Forest Planning and Management
A-F only, 3 credit(s); prereq Intro silviculture or concurrent registration in silviculture or instr consent ; Credit will not be granted if credit has been received for: FR 5471;
Instructor: STAFF
Description: Processes and techniques for scheduling forest management activities. Goals and objectives of landowners, industry, government, and society. Key issues in forest management and policies/regulations that influence management. Decision analysis: predicting forest outcomes, financial analysis, forest regulation, mathematical models, linear programming, tactical forest management, and economic analysis. Consideration of landscape-level management, desired future conditions, historical range of variability, wildlife management, carbon sequestration, resource monitoring, certification, and adaptive management. Offered every spring.

FR 3471 Forest Planning and Management
A-F only, 3 credit(s); prereq Intro silviculture or concurrent registration in silviculture or instr consent ; Credit will not be granted if credit has been received for: FR 5471;
Instructor: Hoganson,Howard M
Description:
FR 3501 Arboriculture: Selection and Maintenance of Trees  
3 credit(s); prereq 1101 or Hort 1012; Biol 2022;  
Instructor: Johnson,Gary  
Description: This course is designed for the undergraduate student in urban forestry, forestry, horticulture or landscape  
architecture who desires more technical information on the  
selection, siting, and care of individual trees in the landscape.  
Topics include: species selection, planting and transplanting,  
pruning, plant health care management, diagnosis of problems,  
risk management, and remedial treatments. The textbook is the  
4th edition of Aborable: Integrated Management of Landscape  
Trees, Shrubs, and Vines. Other assigned readings from journals  
and texts reserved in the Forestry library, as well as  
electronically forwarded articles. Classes are  
discussion/demonstration lectures with professionals as  
occasional lecturers. Exams are short-answer and problem  
solving in nature. Quizzes are brief and based on reading  
assignments. Lab exercises are pragmatic and problem-solving.  
Style: 60% Lecture, 10% Discussion, 20% Demonstration, 10%  
Guest Speakers. Demonstration  
Grading: 10% mid exam, 15% 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 course consists of two  
mandatory classroom meetings in Twin Cities, one on Jan 14,  
Wednesday and one TBA during spring semester and two  
mandatory field trips January 15-16 (Thursday/Friday) and  
January 30-31 (Friday/Saturday).  
Style: 10% Discussion, 90% Field Trips. The first field tour will  
occur on January 30 - 31 in southeastern Minnesota. The  
second field tour is scheduled for February 7 - 8 in northern  
Minnesota. The last class meeting, a discussion of questions  
about the field trips, will occur in March.  
Grading: 100% reports/papers.  

FR 4200H Honors Seminar  
A-F only, 1 credit(s); prereq FR upper division honors, instr  
consent ;  
Instructor: STAFF  
Description: Student may contact the instructor or department  
for information.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Ek,Alan Ryan  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Hoganson,Howard M  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Nelson,Kristen C  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Kilgore,Mike  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Baughman,Mel J.  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Current,Dean Alan  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Schneider,Ingrid Eleanor  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Bauer,Marvin E  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Johnson,Gary  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study  
1-5 credit(s), max credits 15, 3 completions allowed; prereq  
instr consent ;  
Instructor: Frelch,Lee E  
Description: Study/project on topic of personal interest in  
consultation with faculty member. Initial proposal, reports of  
accomplishments.  

FR 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;
Instructor: Carlson, Stephan Paul
Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;
Instructor: Brooks, Kenneth N
Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;
Instructor: Bolstad, Paul V
Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;
Instructor: David, Andrew J
Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;
Instructor: D'Amato, Anthony William
Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;
Instructor: Davenport, Mae Allen
Description: Student may contact the instructor or department for information.

FR 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;
Instructor: Montgomery, Rebecca Anne
Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;
Instructor: Becker, Dennis R
Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed; prereq instr consent;
Instructor: Becker, Dennis R
Description: Study/project on topic of personal interest in consultation with faculty member. Initial proposal, reports of accomplishments.

FR 4501 Urban Forest Management: Managing Greenspaces for People
3 credit(s): prereq [1101, 3501, Ent 4251, 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
Description: This course is designed for upper level undergraduate and graduate students in urban forestry, forestry, natural resources, landscape architecture, landscape design and planning curriculi. This is a management course with less emphasis on tree care than FR 3501. Topics of study include: risk assessment and management; inventorying and developing maintenance programs; legal perspectives of urban forest management; urban user preferences; minimizing green and gray infrastructure conflicts; protecting the resources during development and urban expansion; storm preparedness and response.
Style: 40% Lecture, 20% Discussion, 5% Student Presentation, 15% Demonstration, 20% Guest Speakers.
Grading: 15% mid exam, 15% final exam, 30% reports/papers, 30% quizzes, 10% in-class presentation.

FR 4801H Honors Research
A-F only, 2 credit(s); prereq FR upper division honors, instr consent;
Instructor: STAFF
Description: First semester of independent research project supervised by faculty member.

FR 4802H Honors Research
A-F only, 2 credit(s); prereq FR upper division honors, instr consent;
Instructor: STAFF

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 natural resources. Data structures, sources, collection, and quality. Lab exercises introduce geodesy, map projections, spatial analyses, and cartographic modeling.

FR 5203 Forest Fire and Disturbance Ecology
A-F only, 3 credit(s); prereq [Grad student or instr consent], course fee; Credit will not be granted if credit has been received for: FR 3203;
Instructor: Frelich, Lee E
Description: The ecology, history, management, and control of fire, wind, insect infestation, deer browsing, and other disturbances in forests, including disturbance regimes of boreal, northern hardwood, and other major forest types of North America. The influence of disturbance on wildlife habitat, urban/wildland interfaces, forest management, and stand/landscape dynamics. One-day field trip. Offered every spring.
Style: 60% Lecture, 20% Discussion. Small group exercises
Grading: 40% mid exam, 20% final exam, 20% problem solving, 10% other evaluation.
Exam Format: Short answer, essay, solve problems

FR 5218 Measuring and Modeling Forests
A-F only, 3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3218;
Instructor: Burk, Thomas Edward
Description: General sampling design and survey techniques to assess current resource conditions. Application of these metrics/sampling methods to forest vegetation. Calculation of tree/stand volume and selection of modeling approaches. Case studies of modeling to project future growth. Landscape processes, characterization, and modeling. Offered every spring.

FR 5262 Remote Sensing of Natural Resources and Environment
4 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3262;
Instructor: Bauer, Marvin E  
Description: The course is designed to provide 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 mapping and monitoring natural resources, environment and land use. Both photographic and digital sensing approaches are considered. The laboratory provides hands-on experience in interpretation of aerial photographs and an introduction to digital image analysis techniques, along with a practical/ team project using remote sensing. 

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: Management of forest ecosystems for sustaining ecological integrity, soil productivity, water quality, wildlife habitat, biological diversity, commodity production in landscape context. Silvics, forest dynamics, disturbances, regeneration, restoration, silvicultural systems. Ramifications of management choices.

FR 5413 Managing Forest Ecosystems: Silviculture Lab  
1 credit(s); prereq FR [major or minor] or grad student;  
Instructor: D’Amato, Anthony William  
Description: Development of silvicultural prescriptions to achieve various landowner objectives. Timber cruise, growth/yield simulations, stand density management diagrams, thinning schedules, use of forest vegetation simulator. Two Saturday field trips, computer labs, lectures. 

FR 5431 Timber Harvesting and Road Planning  
2 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3431;  
Instructor: Blinn, Charles R  
Description: Introduction to forest operations. Terminology, basic engineering, equipment and harvesting system options, productivity/costs. Relationship to forest management and silviculture. Road planning, forest management guidelines, approaches for mitigating potential impacts to soil/water resources. Environmental implications of method/equipment choices. Selling timber. Sale design, layout, and administration.  
Style: 80% Lecture, 5% Film/Video, 5% Small Group Activities, 10% Student Presentation.  
Grading: 20% mid exam, 20% final exam, 15% reports/papers, 45% written homework.  
Exam Format: The two midterm take home exams are both short essay format. The final exam is a mixture of T/F, short answer, matching, and fill-in-the-blank questions.

FR 5471 Forest Planning and Management  
A-F only, 3 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: FR 3471;  
Instructor: STAFF  
Description:  

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  
Description: This course is designed for upper level undergraduate and graduate students in urban forestry, forestry, natural resources, landscape architecture, landscape design and planning curriculi. 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% Demonstrations, 20% Guest Speakers.  
Grading: 15% mid exam, 15% final exam, 30% reports/papers, 30% quizzes, 10% in-class presentation.

FR 5612 Silviculture and Timber Harvesting Practices in Minnesota  
1 credit(s); prereq Forest ecology, managing forest ecosystems: silviculture; Credit will not be granted if credit has been received for: FR 3612;  
Instructor: Blinn, Charles R  
Description: Silvicultural and harvesting practices are driven primarily by landowner objectives and site and stand restrictions. This field based course focuses on silvicultural and timber harvesting practices of different forest species on various types of sites throughout Minnesota. The course consists of two mandatory classroom meetings in Twin Cities, one on Jan 14, Wednesday and one TBA during spring semester and two mandatory field trips January 15-16 (Thursday/Friday) and January 30-31 (Friday/Saturday).  
Style: 10% Discussion, 90% Field Trips. The first field tour will occur on January 30–31 in southeastern Minnesota. The second field tour is scheduled for February 7–8 in northern Minnesota. The last class meeting, a discussion of questions about the field trips, will occur in March.  
Grading: 100% reports/papers.  

FR 5700 Colloquium in Natural Resources  
1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent;  
Instructor: STAFF  
Description: Colloquium in specialized topics in natural resources.  
Style: 40% Lecture, 30% Discussion.  
Grading: 50% reports/papers, 30% special projects, 10% in-class presentation, 10% class participation.  
Exam Format: essay

FR 8101 Research Problems: Physiological Ecology  
1-5 credit(s), max credits 10, 10 completions allowed; prereq instr consent;  
Instructor: Montgomery, Rebecca Anne  
Description: Student may contact the instructor or department for information.

FR 8102 Research Problems: Forest-Tree Genetics  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: David, Andrew J  
Description: Student may contact the instructor or department for information.

FR 8103 Research Problems: Forest Hydrology  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Eckman, Karlyn  
Description: Student may contact the instructor or department for information.

FR 8104 Research Problems: Forest Ecology  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Montgomery, Rebecca Anne  
Description: Student may contact the instructor or department for information.

FR 8105 Research Problems: Silviculture  
1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: D’Amato, Anthony William  
Description: Student may contact the instructor or department for information.

FR 8106 Research Problems: Urban Forestry--Biology and Management  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Johnson, Gary  
Description: Student may contact the instructor or department for information.

FR 8107 Seminar: Forest Resources  
1 credit(s);  
Instructor: Thompson, Jerrielyn L  
Description: Student may contact the instructor or department for information.

FR 8201 Research Problems: Forest Economics  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Hoganson, Howard M  
Description: Student may contact the instructor or department for information.

FR 8201 Research Problems: Forest Economics  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Kilgore, Mike  
Description: Student may contact the instructor or department for information.

FR 8201 Research Problems: Forest Economics  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Becker, Dennis R  
Description: Student may contact the instructor or department for information.

FR 8202 Research Problems: Forest Biometry and Measurements  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Ek, Alan Ryan  
Description: Student may contact the instructor or department for information.

FR 8202 Research Problems: Forest Biometry and Measurements  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Burk, Thomas Edward  
Description: Student may contact the instructor or department for information.

FR 8203 Research Problems: Forest Recreation  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Bengston, David  
Description: Student may contact the instructor or department for information.

FR 8203 Research Problems: Forest Recreation  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Schneider, Ingrid Eleanor  
Description: Student may contact the instructor or department for information.

FR 8203 Research Problems: Forest Recreation  
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Davenport, Mae Allen  
Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy  
1-5 credit(s), max credits 10, 4 completions allowed;  
Instructor: Nelson, Kristen C  
Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy  
1-5 credit(s), max credits 10, 4 completions allowed;  
Instructor: Baughman, Mel J.  
Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy  
1-5 credit(s), max credits 10, 4 completions allowed;  
Instructor: Kilgore, Mike  
Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy  
1-5 credit(s), max credits 10, 4 completions allowed;  
Instructor: Current, Dean Alan  
Description: Student may contact the instructor or department for information.

FR 8204 Research Problems: Forest Policy  
1-5 credit(s), max credits 10, 4 completions 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 completions allowed;  
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 completions allowed;  
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 completion 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);  
Instructor: Kilgore, Mike  
Description: Student may contact the instructor or department for information.

FR 8207 Economic Analysis of Natural Resource Projects  
A-F only, 2 credit(s);  
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);  
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 completion allowed;  
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 completion allowed;  
Instructor: Current, Dean Alan  
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Leadership
1-3 credit(s), max 5, 1 completion allowed; prereq instr consent;
Instructor: Current, Dean Alan
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 completion allowed; prereq instr consent;
Instructor: Carlson, Stephen Paul
Description: Student may contact the instructor or department for information.

French
260 Folwell Hall

FREN 100 Reading French in the Arts and Sciences
S–N only, 0 credit(s);
Instructor: Akehurst, JD PhD, Frank Ronald
Description: This course has been designed to teach you how to read French quickly and accurately. No attempts will be made to teach you to write it, speak it, or understand it when it is spoken. Focused on this specific aim, you should be able to quickly acquire considerable skill in reading and understanding French in quite a short time. The teaching strategy of the course is, thus, rather different from that used in four-skill French courses where considerable energy is required to develop skills in writing, speaking, and listening as well as reading. In this course, for example, verb tense patterns are presented in a different order than is normally the case. The course consists of 15 lessons and a final exam. Upon successfully completing the course you should be able to use your reading skills to read material in French in books, newspapers, magazines, and Web sites. You will also be able to use French as a research tool in your graduate degree program. If you pass the final exam, you will satisfy the U of M Graduate School requirement for a reading knowledge of a second language. Consult your graduate advisor for information about specific requirements in your department. Course Outline: Lesson 1: Nouns, Articles, Prepositions, Adjectives, and Numbers; Lesson 2: Verbs, Past Participles, Adverbs, Pronouns, and Prepositions; Lesson 3: Negative Forms of Verbs, Using ne . . . que, the Irregular Verbal tenir; Lesson 4: Personal Pronouns as Subjects; Present, Future, and Conditional Tenses; Lesson 5: Irregular Verbs, Identifying Past Tenses, the Imperfect Tense, the Verb avoir; Lesson 6: Direct and Indirect Object Pronouns, Compound Tenses, the Verb etre; Lesson 7: Present Participles, the Comparative, subjunctive, the Verbs prendre and faire; Lesson 7: French Syntax; Causative Use of faire; the Verbs savoir, voir, and pouvoir; Lesson 9: Auxiliary Verbs; lequel and en; the Verbs vouloir, devoir, and aller; Lesson 10: Using the pace simple, Expressions of Time, the Verb venir; Lesson 11: Relative Pronouns, Nouns with Two Genders, tout, the Verb ouvrir; Lesson 12: Adjectives, Uses of, Conjuctions, Using the Irregular Stem Index; Lesson 13: Disjunctive Pronouns, the Imperative, Uses of aussi; Lesson 14: The Subjunctive Mode, Possessive Pronouns, the Verbs partir and se servir de; Lesson 15: More on Reflexive Verbs, Interrogative Forms, Using a Dictionary; Lesson 16: Final Exam Directions; Appendix A: Translation of Exercises; Appendix B: Translation of Readings. Course text: Stack, Edward M. Reading French in the Arts and Sciences. 4th ed. Boston: Houghton Mifflin, 1987. Any good English-French/French-English dictionary, such as the one published by Harper/Collins/Robert, Oxford, or Cassells. (Make sure to buy a dictionary complete enough that it provides translations in various contexts rather than just a list of equivalent terms.) Instructor e-mail: akehu001@umn.edu
Style: This is a printed correspondence section.
Grading: 100% final exam. Each assignment is graded on the A–F system, even though the course is graded on an S/N basis. Each assignment will be returned to help you keep track of your progress. Grades for the assignments have no bearing on the course grade.

Exam Format: The grade course will be based entirely on the final exam, which you must take under supervision and for which you may NOT use dictionaries or other aids.

FREN 1001 Beginning French
5 credit(s);
Instructor: STAFF
Description: This course is intended for students with NO previous study of French, or students who have not studied French in recent years (gap of 3 years or more). If you have more than two years of high school French completed within the last year or two, you should register for Fren 1022 which provides students with an accelerated review of Fren 1001 material followed by material covered in Fren 1002. For further information on placement, see your advisor or contact the Department of French and Italian. Fren 1001 is a theme-based course. Students develop their communication skills in French in different areas: speaking, writing, listening and reading. In addition to linguistic skills, students develop a better understanding of diverse aspects of French-speaking cultures. Themes addressed in the course include: student life, family, recreation, life in Francophone cities, housing, Francophone heritage in Northern America and Canada. The text, “Deux Mondes,” 6th ed., is accompanied by an electronic workbook (Quia) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the “Deux Mondes” textbook students will work with materials from “Premiere Etape” through Ch. 5. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Combination of whole-class and small-group activities
Grading: 10% mid exam, 15% final exam, 12% reports/papers, 8% special projects, 10% quizzes, 25% other evaluation. written exams; 12% oral tests; 8% workbook exercises

Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
that - different - not necessarily better or worse. Keep an open mind and be alert to cultural differences as they appear in both language and behavior while viewing the video segments. I hope that you will find the experience of learning a language rewarding. Above all, have fun! For more course information, see the downloadable syllabus on the Media Upload tab.

Style: This is a printed correspondence section.

Grading: 25% mid exam, 50% final exam, 25% written homework. The self-recordings are NOT GRADED UNLESS PAIRED OFF A QUIZ. The oral exercises are for practice and to check your pronunciation. The instructor may record corrections to your pronunciation. Lowest written and oral quiz scores are dropped.

FREN 1002 Beginning French
5 credit(s); prereq 1001 or equiv; Credit will not be granted if credit has been received for: FREN 4022;
Instructor: STAFF

Description: Fren 1002 is intended for students who have completed Fren 1001 or the equivalent. In this course students build on the interpersonal, interpretive and presentational skills developed in first-semester French and on their knowledge and understanding of Francophone cultures and practices. Culture is taught through multimedia and cultural readings. Fren 1002 is a theme-based course. Themes addressed in this course include: Francophone youth, food, geography, the environment, travel, education and employment. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from Ch. 6 through Ch. 10. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Class Time: Mostly discussion and student involvement in pair/group activities.

Grading: 30% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 13% special projects, 12% quizzes, 5% workbook exercises

Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 1002 Beginning French
5 credit(s); prereq 1001 or equiv; Credit will not be granted if credit has been received for: FREN 4022;
Instructor: Estrem, Mary Elaine

Description: Learning a second language can open whole new worlds to you. By choosing to learn French, you will begin to share a language spoken by millions of people all over the world. France was once a great colonial power in Africa, and many countries there continue to use French as an official language. French national boundaries extend to the Caribbean (Guadaloupe, Martinique), South America (French Guyana), and the Pacific (Tahiti). New England and Louisiana are home to large French-speaking communities, and French is the official language in Quebec. Indeed, Canada is officially a bilingual country.

French remains one of the principal languages of diplomacy, and is one of the official languages at the United Nations. So, while our first thoughts are often of France when we think of the French language, French is actually spoken in many parts of the world. In this course, you will go to the center of the French-speaking world - Paris - where you will learn French by participating in a story about a young French woman, Mireille Belleau, and a young American man, Robert Taylor, who develop an interest in each other. As their story unfolds, you will learn language for common social situations, such as ordering food and drink, shopping, and making reservations. You will also learn some of the world's most popular dishes and how to prepare them. You will learn language for social situations and extend your understanding of French culture. Themes addressed in this course include cinema, education, travel and leisure, and Francophones. The textbook "Interaction" 7th ed. includes contemporary informational readings, historical information, and literary texts. In this course students will learn material from Ch. 10, 6, 8, 9. Audio-materials to accompany the workbook are available on the course site: the story of a young French journalist and her pursuit of the truth about her grandfather's past. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Mostly discussion and student involvement in pair/group activities

Grading: Grade: 15%: final exam, 20%: reports/papers, 6%: chapter participation, 32% other evaluation: written exams (22.5%), writing assignments on movie, on-line writing assignments (9.5%), 15%: oral exams, 5%: workbook exercises.

Exam Format: Exam Format: Exams assess a student's listening, reading, speaking and writing proficiency and cultural knowledge and understanding. Oral exams are administered in pairs, written exams involve answering short questions and essay writing.

FREN 1004 Intermediate French
5 credit(s); prereq 1003 or Entrance Proficiency Test;
Instructor: STAFF

Description: This course is designed for students who have successfully passed Fren 1003 with a C- or better or who have completed the EPT (Entrance Proficiency Test) for this level. This course continues the building of speaking, writing, listening and reading skills acquired during the first three semesters of French while expanding cultural awareness, knowledge and understanding of Francophone cultures. Emphasis is placed on reading, writing and culture. Themes addressed in this course include cinema, education, travel and leisure, and Francophone. The textbook "Interaction" 7th ed. includes contemporary informational readings, historical information, and literary texts. In this course students will learn material from Ch. 10, 6, 8, 9. Audio-materials to accompany the workbook are available on the course site for use outside the classroom. Writing skills will be developed through process-writing essays. Several class sessions will allow students to work with audio-visual resources to develop their
listening and culture skills, and to work with authentic web-based resources to develop their reading skills and cultural competence. Students will become more sophisticated readers of literary texts. In the course students will read a short novel "Une vie de Boy" by F.Oyono. During enrollment in 1004 students who choose to, will have the opportunity to complete the Language Proficiency Exam (LPE) and earn a text on their transcript endorsing their proficiency in French.

**FREN 1022 Accelerated Beginning French**

5 credit(s); prereq 2 or more yrs high school French; Instructor: STAFF

**Description:** Prereq: 2 or more yrs high school French. This beginning French course for false beginners is intended for students who have previously studied French in high school or at a community college, or who are transfer students, while Fren 1001 is a course for students with no previous French studies. The Fren 1002 course begins with a review of Fren 1001 materials (Ch. preliminaire through Ch. 5 in "Deux Mondes" 6th ed.), followed by materials introduced in Fren 1002 (Ch. 6 through Ch. 10). In other words, the course allows students to learn first-year materials in one semester. Upon entering Fren 1002 students should be familiar with basic vocabulary related to daily life and daily survival situations, present and past tenses (please note: "pause compose" will be reviewed and "imparfait" will be introduced). Fren 1002 is a theme-based course. Themes addressed in this course include: student life, family, recreation, housing, Francophone heritage in North America, Francophone youth, food, geography, the environment, travel, education and employment. Students develop knowledge and understanding of Francophone practices and products through multimedia and cultural readings. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. Since the majority of class is devoted to communication class attendance is fundamental.

**Style:** Mostly discussion and student involvement in pair/group activities.

**Grading:** 36% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 10% special projects, 7% quizzes, 7% workbook exercises

**Exam Format:** All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

**FREN 3015 Advanced French Grammar and Communication**

4 credit(s); prereq 1004 or equiv or instr consent; Instructor: STAFF

**Description:** Fren 3015 is the first in a two-course sequence (with 3016) which combines an intensive review of grammar with a special focus on the articulation and organization of ideas through reading, writing, and textual analysis. In 3015, students will develop skills in a variety of writing forms (e.g. compre rendu, argumentative essay, film scene analysis) while exploring selected cultural themes through written texts and film. Course requirements include written exams as well as regular writing assignments, which usually involve one rewriting. Students who do not receive a grade of B or better in 3015 (or equivalent course) are strongly encouraged to repeat 3015 before taking 3016.

**Style:** Language instruction

**Grading:** 50% written homework, 10% class participation.

**Exam Format:** Grammar exercises, essay

**FREN 3022 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 while 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 Reading Intensive; Instructor: STAFF

**Description:** This course is an introduction to literature and methods of literary analysis for students preparing a major or minor in French. This course treats selected works of French and Francophone literature from the Early Modern to the Modern Period. Students learn to identify the salient features of the major genres, to apply techniques of close textual reading, and to write critical analyses of poetry, fictional prose, and plays. Works are analyzed from various perspectives with a view to understanding their place in literary history and cultural context. Some key topics of the course will be subjectivity, language, narration, description, rhetorical figures, identity, power, and desire. Writing is an important component of this class; class discussions and oral assignments will focus not only on understanding literary works but also on how they function, so that students may apply skills developed through discussion to their written assignments.

**Style:** 60% Lecture, 40% Discussion.

**Grading:** 15% mid exam, 60% reports/papers, 15% class participation.

**Exam Format:** essay

**FREN 3140 Topics in Medieval and Renaissance Literature:**

4 credit(s); prereq 3015 or equiv or instr consent; Instructor: STAFF

**Description:** Fren 3140 is the second in a two-course sequence (with 3015) which combines an intensive review of grammar with a special focus on the articulation and organization of ideas through reading, writing, and textual analysis. In 3016, students will develop skills in a variety of writing forms (e.g. compre rendu, argumentative essay, film scene analysis) while exploring selected cultural themes through written texts and film. Course requirements include written exams as well as regular writing assignments, which usually involve one rewriting. Students who do not receive a grade of B or better in 3015 (or equivalent course) are strongly encouraged to repeat 3015 before taking 3016.

**Style:** Language instruction

**Grading:** 50% written homework, 10% class participation.

**Exam Format:** Grammar exercises, essay

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Courts, Patrons, and the Construction of Culture in the Twelfth Century?Courtliness? is perhaps the central star in the constellation of concepts that we attribute to the culture of the late Middle Ages, although it is easier to drop the term from casual conversation than to define it with any precision. Its ancillaries, ?courtly literature? and ?courtly love?, are no less frequently cited and no less vague. In this course, we shall test common assumptions about courtliness against the evidence left by writers, artists, and musicians working in twelfth-century French, Poitevin, and Angevin courts. The central figure in this milieu is, of course, Eleanor of Aquitaine (ca. 1122-1204), granddaughter of William IX (commonly known as the ?first troubadour?). At the young age of 15, she inherited the duchy of Aquitaine and the county of Poitou, and her wealth and political power allowed her to make two brilliant marriages, first to King Louis VII of France, then to Henry, duke of Normandy, who was soon to become King Henry II of England. Her actions ? her insistence upon accompanying Louis on crusade, her ambivalent relations with her uncle Ramon of Antioch, her willingness to dissolve her first marriage in order to wed a man 11 years her junior, her collusion with her sons in rebellion against their father?led to no end of scandals and controversies, making her something of a legend even in her own time. Her many children played important roles not only as rulers, but also as practitioners and patrons of art: Richard C?ur-de-Lion composed lyric, while Marie de Champagne encouraged the romance writing of Chretien de Troyes, among others. We shall therefore take account of the historical context in which patrons and artists functioned, a context where representations of the king, the queen, the knight, the lady, and the cleric could never be entirely disinterested. How did writers and artists reshape the material that they borrowed from other sources (Celtic myth, Classical epic, Byzantine culture) in order to reflect indirectly upon their contemporary milieu? And, conversely, how did the circulation of these artistic representations shape the way diverse members of these courts (noblemen, noble women, and clerics) spoke, behaved, and understood their situation? Finally, how have modern notions of medieval courtliness been shaped? Students will therefore be asked to take account both of the way twelfth-century courtiers actively constructed their cultural paradigms, and of the way scholars and non-scholars today construct a historical understanding from the enigmatic fragments of text and material culture that survive from more than 800 years ago.

Style: 15% Lecture, 70% Discussion, 10% Student Presentation, 5% Guest Speakers.

FREN 3410 Quebecois Literature: Evolving Quebec: Literature, Culture, Nation
3 credit(s), max credits 9, 3 completions allowed; prereq 3101;
Instructor: Sivert,Eileen B
Description: Evolving Quebec: Literature, Culture, Nation This course is meant to introduce students to Quebec through literature, film and cultural and historical writings. Much writing before, during and after the Quebec Quiet Revolution of the 1960s was informed by a sense of cultural cohesion in the Francophone community, marginalized by English-speaking Canada yet determined to be, as they put it, ?maitres chez nous.? The term Quebecois displaced Canadian francais, and language laws ultimately the Francophone majority position in opposition to the historical cultural and linguistic domination by the English-speaking community. Unified resistance solidified around nationalist and separatist movements, which today struggle for appeal after the failed referenda of 1980 and 1995. If resistance to years of oppression led inhabitants of Quebec to cohere around issues of nationalism and to view much of their literary as, in Jacques Godbout?s term ?a national text,? just what is this ?nation?? Texts will be studied in the context of the rapid social, economic and political developments in Quebec in the twentieth and twenty-first centuries. We will treat a broad range of questions dealing with national, ethnic and personal identity, issues of gender and class, questions of cultural difference and conflict surrounding national independence and the survival of Quebec?s cultural identity as well as more current negotiations among the many different communities that form the texture of Quebec. Writings and films will be selected from the work of such novelists, essayists and filmmakers as: Gabrielle Roy, Hubert Aquin, Anne Hebert, Jacques Poulin, Marie-Claire Billaud, Lisa Pool, Denys Arcand, Paul-Emile Borduas and Charles Taylor.

Style: 15% Lecture, 15% Film/Video, 55% Discussion, 10% Small Group Activities, 5% Student Presentation.
Grading: 20% mid exam, 60% reports/papers, 5% quizzes, 5% in-class presentation, 10% class participation.

FREN 3650 Topics in French/Francophone Cultures:
Headscarves/Yarmulkes: French Secularism Today
3 credit(s), max credits 9, 3 completions allowed; prereq 3015;
Instructor: chaouat,bruno
Description: Whereas the US was established as a shelter for European religious minorities, modern France was built to prevent abuse of power from the Church. This has led the French Republic to relegate religion to the private sphere and to draw solid lines between public and private when it comes to religious display. While the Jews were emancipated in the late 18th century and early 19th century under the condition that they renounce claims of collective religious and ethnic identity, a constellation of phenomena have provoked claims of ethnic and religious identity by minority groups. Among these phenomena are the recent waves of immigrants from Muslim countries, the process of globalization, the weakening of the nation state and of the ideals of the Republic. Hence the debate that erupted in the 1980s about the right to wear religious signs in public school. In this course, we will trace the history of the French separation of State and Church in order to approach current debates that split French society. We will focus more specifically on French public school as a laboratory for broader social debates concerning religion and French identity. We will use different media such as texts by writers and historians, radio programs, and visual materials.

FREN 3650 Topics in French/Francophone Cultures:
Contemporary African Francophone Theater
3 credit(s), max credits 9, 3 completions allowed; prereq 3015;
Instructor: Ngilla,Sylvie
Description: This course examines the ways in which the body, music, language, sexuality, and narrative techniques are mobilized to interpret postcolonial identity in avant-garde and experimental theater by contemporary francophone African playwrights. We will engage notion of violence to determine if it is a characteristic of this theater or the reality it represents. Also we will analyze how contemporary African playwrights emphasize creations and recreations of myths in relation to rituals of life and death. Starting with Rocadu Zulu Theater by Congolese playwright Sony Labou Tansi, who laid the foundation for contemporary African Theater, course reading will include Werewere Liking (Cameron), Caya Makhele (Congo), Jean-Pierre Guillaume (Burkina Faso), Koffi Kwahule (Ivory Coast), Jose Pliya (Benin), and Kossi Efoui (Togo), among others. Class discussion will focus on both the socio-historical contexts of francophone African theater and the aesthetics. The reading list includes works that address social issues, as in theater-for-development, as well as plays that could be identified as Art Theater. Other course materials include critical readings, videos of theatrical and musical performances, films, documentaries and interviews, as an interdisciplinary approach will be emphasized.

Style: 60% Lecture, 40% Discussion.
Grading: 70% reports/papers, 20% in-class presentation, 10% class participation.

FREN 4001 Beginning French
2 credit(s); prereq Grad student;
Instructor: STAFF
Description: This course is intended for students with NO previous study of French, or students who have not studied French in recent years (gap of 3 years or more). If you have more than two years of high school French completed within the last year or two, you should register for Fren 4022 which
provides students with an accelerated review of Fren 4001 material followed by material covered in Fren 4002. For further information on placement, see your advisor or contact the Department of German and Italian. Fren 4001 is a theme-based course. Students develop their communication skills in French in different areas: speaking, writing, listening and reading. In addition to linguistic skills, students develop a better understanding of diverse aspects of French-speaking cultures. Themes addressed in the course include: student life, family, recreation, life in Francophone cities, housing, Francophone heritage in Northern America and Canada. The text, “Deux Mondes,” 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the “Deux Mondes” textbook students will work with materials from “Premiere Etape” through Ch. 5. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Combination of whole-class and small-group activities

Grading: 10% mid term, 15% final exam, 12% reports/papers, 8% special projects, 10% quizzes, 25% other evaluation. written exams: 12% oral tests; 8% workbook exercises

Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture.

FREN 4002 Beginning French
2 credit(s); prereq Grad student; Instructor: STAFF

Description: Fren 4002 is intended for students who have completed Fren 4001 or the equivalent. In this course students build on the interpersonal, interpreative and presentational skills developed in first-semester French and on their knowledge and understanding of Francophone practices and products. Culture is taught through multimedia and cultural readings. Fren 4002 is a theme-based course. Themes addressed in this course include: Francophone youth, food, geography, the environment, travel, education and employment. The text, “Deux Mondes,” 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the “Deux Mondes” textbook students will work with materials from Ch. 6 through Ch. 10. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Mostly discussion and student involvement in pair/group activities

Grading: 30% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 13% special projects, 12% quizzes, 5% workbook exercises

Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 4003 Intermediate French
2 credit(s); prereq Grad student; Instructor: STAFF

Description: Prereq: 1002 or 1022 or Entrance Proficiency Test
Description: This course is designed for students who have completed Fren 1002 or 1022 with a C- or better or who have successfully passed the EPT (Entrance Proficiency Test) for this level. In this course students build on the interpersonal, interpreative and presentational skills developed in beginning French and on their knowledge and understanding of Francophone practices and products. Culture is taught through multimedia and cultural readings. Fren 1003 is a theme-based course. Themes addressed in this course include: French media and cinema, Francophone life and literature, Francophone family, societal and global issues. The text, “Deux Mondes,” 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the “Deux Mondes” textbook students will work with materials from Ch. 11 through Ch. 14. They will also work with the text “Chemin du Retour” available on the course site: the story of a young French journalist and her pursuit of the truth about her grandfather?â€™s past. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: Mostly discussion and student involvement in pair/group activities

Exam Format: Exams assess a student's listening, reading, speaking and writing proficiency. Oral exams are administered in pairs, written exams involve answering short questions and essay writing.

FREN 4004 Intermediate French
2 credit(s); prereq Grad student; Instructor: STAFF

Description: This course is for those who have successfully passed Fren 1003 with a C- or better or have passed all sections of the EPT (Entrance Proficiency Test) for this level. This course continues the building of speaking, writing, listening and reading skills acquired during the first three semesters of French while expanding cultural knowledge. Emphasis is placed on reading, writing and culture. Themes addressed in this course include cinema, transportation and technology, education, leisure, and the francophone world. The text, “Interaction” 6th ed., includes contemporary informational readings, historical information, and literary texts. In this text students will learn material from Ch. 6 through Ch. 10. Audio-materials to accompany the workbook are available on the course website for use outside the classroom. Writing skills will be developed through process-writing essays. Several class sessions will allow students to work with audio-visual resources to develop their listening and culture skills, and to work with authentic web-based resources to develop their reading skills and cultural competence. Students will become more sophisticated readers of literary texts (from France and the francophone world) as they work with a selection of 19th- and 20th-century literary readings compiled in “Explorations: La litterature du monde francais”, 4th ed.

FREN 4022 Accelerated Beginning French
2 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: FREN 1002;
Instructor: STAFF

Description: Prereq: 2 or more yrs high school French This beginning French course for false beginners is intended for students who have previously studied French in high school or at a community college, or who are transfer students, while Fren 4001 is a course for students with no previous French studies. The Fren 4022 course begins with a review of Fren 4001 materials (Ch. preliminaire through Ch. 5 in “Deux Mondes” 6th ed.), followed by materials introduced in Fren 4002 (Ch. 6 through Ch. 10). In other words, the course allows students to learn first-year materials in one semester. Upon entering Fren 4022 students should be familiar with basic vocabulary related to daily life and daily survival situations, present and past tenses (please note: “passe compose” will be reviewed and “imparfait” will be introduced). Fren 4022 is a theme-based course. Themes addressed in this course include: student life, family, recreation, housing, Francophone heritage in North-America, Francophone youth, food, geography, the environment, travel, education and employment. Students develop knowledge and understanding of Francophone practices and products through multimedia and cultural readings. The text, “Deux Mondes,” 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. Since the majority of class is devoted to communication class attendance is fundamental.

Grading: 36% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 10% special projects, 7% quizzes, 7% workbook exercises

Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

FREN 4010V Honors: Seminar in French Studies
3 credit(s); prereq Completion of all pre-elective requirements for major or permission of DUS; Meets CLE req of Writing Intensive;

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
FREN 4101W Seminar in French Studies

3 credit(s); prereq Completion of all pre-elective requirements for major or permission of DUS; Meets CLE req of Writing Intensive;

Instructor: Brown, Mary Frances

Description: In this course, students design and carry out a substantial research project on a topic of their choice in the area of French and Francophone Studies (linguistics, literature, and culture). The topic must be approved by the instructor, and the research paper will be written in consultation with the lead instructor and other faculty members in the Department, as appropriate. French majors who plan to complete the requirements for another CLA major (including senior paper) are not required to take Fren 4101, although they may wish to. These students must substitute 3 credits in advanced electives numbering 3111 or above in the French major for Fren 4101.

Style: 100% Discussion.

Grading: 75% reports/papers, 10% in-class presentation, 15% class participation.

FREN 4510 Topics in French Linguistics: Linguistics Applied to Reading French

3 credit(s), max credits 9, 3 completions allowed; prereq 3015;

Instructor: Kerr, Betsy Jean

Description: Topic Title: Linguistics Applied to Reading French

In this course, we will study from a linguistic perspective certain aspects of the French language that are most helpful in reading French-language texts. These aspects include derivational morphology (the building blocks of words and how they are put together) and grammatical analysis of sentences (what grammatical role does each word play: subject, direct object, indirect object, etc.?). The course will thus combine both theoretical and practical components. An important goal of the course is the expansion of the student’s French vocabulary. Activities designed to accomplish this goal include extensive out-of-class reading (of texts of the student’s choosing) and the keeping of a ‘personal dictionary’, as well as the use of electronic aids such as electronic dictionaries and concordancers (special search engines and databases that reveal the patterns of use of a word or expression). Considerable class time will be devoted to study of assigned short texts for intensive analysis of difficult passages or unfamiliar vocabulary. We will attempt to measure any gains in reading proficiency through pre- and post-testing of reading comprehension.

FREN 4970 Directed Readings

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent;

Instructor: STAFF

Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up listing contact hours, number of credits, written and oral work required.

FREN 5301 Critical Issues in French Studies

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

Instructor: Wall-Romana, Christophe

Description: French Cinema Survey: Temporary Communities

This seminar will offer an overview of cinema, movie culture and film criticism in France from the 1890s to the present. It is a graduate level introduction to French cinema history, film craft, and theories and methods of film criticism. The theme, ‘temporary communities’, focalizes a vast field of study by highlighting certain features. Filmmaking is the product of a temporary community, and we will resist reducing it to its director by examining the work of cinematographers, actors, editors, and set designers among others. Spectatorship is also a temporary collective and we will address how movies shape, sway and mobilize it. Finally, film narratives center on communities large and small (couple, family, workplace, gender, nation) and we will analyze both communities forced into and opting for temporariness. Films directors range from the Lumiere Brothers to Epstein, Dulac to Cocteau, Clair to Renoir, Melville to Varda, Bresson to Besson, Kaplan to Chabou. Film criticism includes: Canudo, Epstein, Dulac, Clair, Malraux, Cohen-Seat, Moritz Baudry, Aumont, Bellour, Parni, Brenet, Bullot, and selections from key journals such as Comedonia, Revue de filmologie, Cahiers du cinema, Positif, Trafic.

FREN 8270 Critical Issues: Prose: The Economy of Literature

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Brewer, Daniel

Description: Knowledge Production. Technology, and Cultural Change: The Digital Encyclopedie? First printed between 1751 and 1772, the French Encyclopedie is a portal that opens onto numerous eighteenth-century contexts, be they philosophical, socio-economic, scientific, political, medical or esthetic. The goal of this collaborative, interdisciplinary seminar is to investigate the fraught dynamic of knowledge production and cultural change that the Encyclopedie reveals. We will examine: the emergence of a ‘modern’ way of knowing (producing knowledge and consuming it); the impact of technology upon this way of knowing (the shift from print knowing to digital networked knowing); the relation between ‘new’ ways of knowing and social-cultural change. Using the fully-searchable digital Encyclopedie, seminar participants will develop discipline-specific research topics relating to the encyclopedic text (in such areas as literary history, art history, history, history of science/technology/medicine, political theory, cultural studies, gender studies, etc.). Participants will be encouraged to examine questions in the encyclopedic text as they relate both to the broader early modern context as well as to key issues in contemporary critical theory. Participants will present research papers in a TEMS (Theorizing Early Modern Studies) collaborative workshop, which will be held in conjunction with a two-day symposium on the Encyclopedie. The course will be taught in English; reading knowledge of French is required.

Style: 70% Discussion, 20% Student Presentation, 10% Guest Speakers.

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

FREN 8270 Critical Issues: Prose: The Holocaust in France: Testimony/Fiction/Theory

3 credit(s), max credits 12, 4 completions allowed;

Instructor: Chouat, Bruno

Description: This course examines the event of the Holocaust in France through early testimonies of survivors written in French to contemporary debates surrounding the interpretation of this event and of its representation in literature, art and film. Modern France has a vexed history with regard to the Jews—a history that culminates with the Vichy regime and with what can be seen as a civil war between Resistance and Collaboration. How does this history affect the reception of testimonies, the writing of fiction, the making of films and, ultimately, the heated debates about the ways of talking and representing the Holocaust? More than a course on the Holocaust itself, this seminar deals with the history of its remembrance. Readings include but are not limited to Elie Wiesel, David Rousset, Robert Antelme, Charlotte Delbo, Claude Lanzmann, Alain Resnais, Patrick Modiano, Georges Perec, Maurice Blanchot, Marguerite Duras, Georges Didi-Huberman. Readings will be in English or French. Lectures and discussions will be in English.

FREN 8812 Seminar: Dissertation Preparation and Writing
S-N only, 3 credit(s); prereq Completion of doctoral prelims; Instructor: Cherbuliez, Juliette
Description: It is a longstanding tradition in many disciplines -- especially in the arts, humanities, and certain social sciences -- that dissertations take a narrative form, which necessarily tracks a change or transformation. Whether the basis of this change is concrete or abstract, whether it pursues the transformation of an idea or that of a physical mutation, implicit is the claim that the dissertation studies a transformation over time. In what ways does our scholarship depend on notions of temporally conditioned change? How do we translate our understanding of change into written narratives, and what are the available paradigms to do so? In this seminar, we hope to gather dissertators working on projects that take the concept of change -- or history, narrative, transformation, evolution, progress -- and have a productive discussion about the limits and possibilities of temporal change. We will read selected theoretical discussions on these ideas (from historians of science, historiographers, literary theorists, and philosophers on such topics as positivism, causality, agency, quantification and interpretation), share our disciplinary paradigms and assumptions about the role of change over time, distribute our writing for comment and review, and discuss the writing process together. Dissertators and Ph.D. students at other stages are welcome; we will determine appropriate writing goals for everyone. While this seminar is organized by faculty from History and Literature, graduate students are welcome from any discipline whose work engages with these topics. N.B. Readings for the first class session will be distributed by email to registered students before the semester begins.

**French and Italian**

*260 Folwell Hall*

**FRIT 3850 Topics in French and Italian Cinema**
3 credit(s); max credits 9, 3 completions allowed; prereq Knowledge of [French or Italian] helpful but not required; 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 2001 or SW 2501 or instr consent; Credit will not be granted if credit has been received for: SW 3301; Instructor: Phibbs, Anne Elizabeth
Description: Development of gay, lesbian, bisexual, and transgender (GLBT) social movement historically. Current state of GLBT movements. Readings draw on social movement theory, and GLBT Studies. Interdisciplinary course with classroom and community service learning.

**GLBT 3456W Sexuality and Culture**
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive; Instructor: Conley, John E
Description: Student may contact the instructor or department for information.

**GLBT 3610 Topics in GLBT Studies**
3 credit(s), max credits 9, 3 completions allowed; Instructor: Collary, Eric Joseph
Description: Student may contact the instructor or department for information.

**Gender, Women, and Sexuality Studies**

*425 Ford Hall*

**GWSS 1001 Gender, Power, and Everyday Life**
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Creel Falcon, Kandace
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fee and financial aid restrictions. Goals: After completing this course, you should be able to ? understand and develop a critical vocabulary of key terms and theoretical debates within the U.S. field of gender, women, and sexuality studies; ? appreciate the value of women’s lives, stories, and work as sources of knowledge about the complex realities of diverse groups of women; ? complicate the ways we “read” gender and other identity categories; ? build more complex understandings of women’s oppression, marginalization, sexual harassment, and other important issues; ? develop tools for understanding and analyzing historical and contemporary social phenomena and enable a more critically informed perspective on these issues; and ? critically analyze U.S. cultural products (texts, books, music, films, videos, toys, artwork, etc.) using key feminist theories discussed in the course materials. A Note on Course Content: In some courses, you are required to memorize a body of knowledge or list of facts and deliver each idea back for examinations to receive an A. This course, however, does not work this way. Instead of memorizing facts or a fixed body of knowledge, you must engage the ideas proposed in readings and media content to develop your own analysis. Some of the issues we will study are contested issues, even among feminists. This course is not about conversion to a feminist ideology, but instead asks you first to consider your personal reaction and then go deeper and think critically about all the claims being made. For the required writing—both the formal and the informal assignments—you must support your claims with ideas generated in readings and media. The reading can be challenging, and writing a formal response can be equally demanding, but be assured it will be easier to understand theoretical ideas with more complexity as the lessons progress. Strange key terms or concepts will become clearer as we read and view media examples, and soon they will become part of your “everyday” course writing vocabulary. You will use your writing as a way to explore and articulate your responses to the texts and key ideas. Of course, an introductory course is simply that—an introduction to some central ideas, dilemmas, and paradigms. We will read and engage materials from identity groups that may be different from our own. Please be cautious about making blanket assumptions about differences. It is dangerous to assume that one person speaks for or represents the group. Statements like “all women are” can be tricky. Be cautious to consider specificities by avoiding overgeneralization about gender categories and specific cultural or ethnic groups based on one person’s theory. Please approach the course material with patience, openness, and a critical eye.
Style: 100% Web Based.
Grading: 10% quizzes, 15% reflection paper. Also: 4 reading response papers (56%) 2 exercises (4%) 1 final paper (15%)

**GWSS 1002 Politics of Sex**
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Desai, Jigna
Description: The politics of sex are around us everyday ? in our laws, on our televisions and radios, and aired in heated political debates. In this course, we tackle some of the controversies associated with a variety of contemporary issues ranging from pornography and global sex work (prostitution) to imperialism and marriage and weddings. And we do it while having fun: we attend the Vagina Monologues, debate same-sex marriage, and create our own popular culture. As we do this, the course unravels how sex, gender, and sexuality, along with race and
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 worldwide 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 3303 Gender and Global Politics
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Purcell Gates, Laura
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. While there are no formal prerequisites for GWSS 3303 (formerly WoSt 3303), the best index of your preparedness is your degree of willingness to question your own fundamental assumptions about gender and about the lives of women and men in different countries throughout the world. We all bring our own culture's assumptions and biases to the task of learning about other people. We need to become aware of these preconceptions before we can understand, much less accept, alternative ways of thinking about the lives of women and men in cultures other than our own. You should also be prepared to reconsider what constitutes politics and political engagement, challenging yourself to better recognize and understand the dynamics of global interconnectedness. This course will explore the diversity of women's (and men's) experiences in non-Western societies and the multiple social, political, and economic factors that have shaped their lives. You may decide to enroll in this course for any number of reasons. Perhaps you have just returned from the Peace Corps, or have spent part of your life living outside of the U.S., or are from another country and culture. Possibly you're attracted to the issues we'll be exploring, such as human and reproductive rights or globalization. You may simply be interested in other parts of the world, particularly in the lives of the women and men who live there. Or you may wish to take this course to fulfill a distribution requirement in your program of study. Whatever your reasons, you will do well in this course if you're willing to devote the time necessary to do the required reading and writing, and if you approach the subject matter with the thoughtfulness it deserves. The title of this course suggests a vast scope and nearly unlimited subject matter. No single course could possibly cover all there is to know about gender and global politics in highly diverse societies on several continents. What this course can provide are some materials on and insights about the lives of some women and men in some societies. With this assistance, and with careful and thoughtful reading and observation on your part, you will learn to: understand the complex ways in which we are all connected globally through economic, political, cultural, and other systems; discern the impact of global relations on women's (and men's) lives and experiences, including those shared by women generally and those specific to place, culture, and history; appreciate the value of women's own words, memories, and stories as sources of knowledge about women's complex realities; and recognize the problems of bias and ethnocentrism in generalizations about Third World women and men and the dangers of measuring other people's lives by U.S. standards.
Style: 100% Web Based.
Grading: See the Syllabus for grading information.

GWSS 3004W Point/Counterpoint: Contemporary Feminist Debates
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Puotinen, Sara Lynne
Description: Fundamentally, American feminism is a collection of movements of difference, dissensus and irreversible complexity. Debates over who counts as a feminist and what the feminist agenda should be have existed since the beginning of modern American feminism. Far from withering or transforming, public and private debates among feminists about feminism and its goals have helped to energize the movement and to ensure that is democratic. Taking as our premise that debate is essential for the success of feminism as a democratic movement (or collection of movements), the goal of this course is to explore how feminists have energized their theoretical/political projects through an engagement with each other's differences and through productive debates on key issues within the movement. After beginning with an introduction to feminism, we will devote the rest of the course to an in-depth exploration of three key issues/topics within feminism: (1) Reproductive Rights, (2) Work and (3) Family Values.

GWSS 3301W Women Writers
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Muthy Pashmina V
Description: Women Writers: Between Fidelity and Betrayal
"Hell hath no fury like a woman scorned"?Women writers across different spatio-temporal locations have explored this pronouncement in their writings, either reading it as an unfair indictment or exemplifying and reinforcing its presumed truth. This course continues the examination of betrayal, while shifting the focus from women being betrayed to women caught between fidelity and betrayal. How do they negotiate the indeterminacy of their positions? This focus on relationships becomes the first axis of inquiry in our course, as we peel back the layers of complexity in the relationships portrayed. The second axis of inquiry shifts focus yet again from interpersonal relationships to women's self-perception in society. In what hues do these writers and their protagonists view women's roles in society? What does it mean to conform to or betray a certain ideal of womanhood? Indeed, what does it mean to be a woman in different racial, ethnic, sexual, national, and gendered configurations? These are merely some of the questions that will guide our reading during the semester. Our selection of writers will cross centuries and countries, class and racial divisions, and language and cultural barriers. We will read novels, plays, poems, and critical texts by writers such as Ismat Chughtai, Mary Wollstonecraft, Suzan Lori-Parks, Mary Shelley, Mariama Ba, Emily Dickinson, and Herta Muller, among others.

GWSS 3306 Pop Culture Women
3 credit(s);
Instructor: STAFF
Description: Contemporary U.S. feminism as political/intellectual movement. Ways in which movement has been represented in popular culture.

GWSS 3390 Topics: Visual, Cultural, and Literary Studies: Sexuality and Gender in Ancient Greece & Rome
3 credit(s), max credits 6;
Instructor: Nappa, Christopher
Description: An understanding of ancient expectations about gender, sexuality, and sexual behavior is both necessary for understanding classical literary texts and Greco-Roman history and important for the role it often plays in contemporary debates about women's ideas about sexuality and the body. There is an
extensive body of evidence (textual and visual) from ancient Greece and Rome, but it poses certain problems of methodology not always faced in the study of sexuality in the modern world and general liberal students. Thus the course seeks not only to expose students to "facts" about ancient sexuality, but to survey the range of evidence that exists, and help them confront the problems that arise from studying primary sources from the ancient world. The course will also expose students to some of the main debates among scholars of ancient sexuality: the so-called Dover model of same-sex behavior in classical Greece, the relevance (and reliability) of Foucault's work on antiquity, the functions of the frequent depictions of rape in classical (especially Roman) literature, the sexualization of the figure of the Roman emperor, and the limits of the evidence for authentic female voices in classical texts. Readings will come from ancient sources in translation, modern scholarly accounts of antiquity, and works on theory and method in the study of gender and sexuality.

**Style:** 50% Lecture, 30% Discussion, 20% Small Group Activities.

**Grading:** 15% mid exam, 15% final exam, 50% reports/papers, 20% journal.

**GWSS 3390 Topics: Visual, Cultural, and Literary Studies: Std. Deviation: Criminality, Insanity & Deviance**

3 credit(s), max credits 6;  
**Instructor:** Murthy,Pashmina V  
**Description:** Standard Deviation: Criminality, Insanity, and the Construction of Deviance. What is the relationship between femininity and deviance? Is it one of correlation or causation? Are these terms synonymous or mutually opposed? We will begin this course with a historical and literary survey of the figure of the woman as deviant. During the course of the semester, we will complicate this link, seeking to analyze the ways in which women become marked with an excess that can only be understood as aberrant, while simultaneously exploring the factors behind this construction and the (im)possibility of women? participation in this narrative. Specific weeks will be devoted to topics such as witchcraft, serial murderers, hysteria, and sexual perversions? to name but four modules. Through fiction, cinema, medical treatises, and news accounts, we will examine the discursive intersections, collusion, and differences in creating and recreating the female as object of fear. How normative is this deviance?

**GWSS 3390 Topics: Visual, Cultural, and Literary Studies:** Sex, Politics, and Hip Hop  
3 credit(s), max credits 6;  
**Instructor:** Isoke PhD,Zenzele  
**Description:** Student may contact the instructor or department for information.

**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 3404 International Lesbian and Queer Studies**  
3 credit(s); prereq 1001 or 1002 or 3001 or instr consent;  
**Credit will not be granted if credit has been received for:** GLBT 3404;  
**Instructor:** STAFF  
**Description:** Student may contact the instructor or department for information.

**GWSS 3590 Topics: Social Change, Activism, Law, and Policy Studies: Farming and the Foods Revolution**  
3 credit(s), max credits 6;  
**Instructor:** Zita,Jacquelyn N  
**Description:** AGRICULTURAL JUSTICE, ORGANIC FARMING AND THE FUTURE OF FOOD In this course we will emphasize the production and consumption sides of the global and local food system with a focus on the sustainable organic farming movement, kitchen-table activism and local and global alternative food movements. Through the lens of gender, race and class, we will examine the global food system, the rise of industrial farming, the plight of the small family farm, rural issues of gender, race and sexuality, and local food production practices. The post-war reconstruction of gender in the 1950s and the future of food will be studied at the level of high tech and chemically intensive production in our global food/capital/genomic economies and at the level of our local farming practices, women and people of color farming mobilizations, the politics of place, and personal eating ethics.  
Alternative food and farming practices will be explored in our local area with some time required to helping out in urban community gardens or local organically-certified farms and attending selected lectures and workshops on campus and in our area. The class will also include a required all-day Saturday field trip on April 18 to organic farms and alternative communities in east central Minnesota and western Wisconsin. It is recommended that students add a fourth or fifth credit to this class by enrolling in GWSS Directed Studies: Organic Farming: Theory and Practice (Wednesday mornings) and also enroll in AGRO 3131 Student Organic Farm Planning Growing and Marketing. Contact Professor Zita (zitax001@umn.edu) directly about the additional Directed Studies credits.

**GWSS 4390 Topics: Visual, Cultural, and Literary Studies:** Gender, Sexuality & Film in Latin America  
3 credit(s); prereq Sr or grad student or instr consent;  
**Instructor:** Kaminsky,Amy K  
**Description:** Student may contact the instructor or department for information.

**GWSS 4690 Topics: Women, Society, and Race in the United States: Intro to Black Feminisms**  
3 credit(s), max credits 6;  
**Instructor:** Isoke PhD,Zenzele  
**Description:** This is an interdisciplinary course that critically examines the activities 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 activities 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 5490 Topics: Political Economy and Global Studies:**  
20th Century Japanese Women in Translation  
3 credit(s), max credits 12, 4 completions allowed;  
**Instructor:** Marran,Christine L  
**Description:** Student may contact the instructor or department for information.

**GWSS 5690 Topics: Women, Society, and Race in the United States**  
3 credit(s), max credits 6;  
**Instructor:** Isoke PhD,Zenzele  
**Description:** This interdisciplinary course critically examines the spatiality of women of color in the United States, and in the Black Diaspora. This course is comprised of writings that have emerged from urban anthropology, human geographies, and contemporary social movements. We will devote special
attention to recent black feminist theorizing on the interplay between black female subjectivity and spatiality. The spatial dimensions of political agency are explored, as well as the discursive strategies that make the activisms of people of color compelling and possible. This course aims to stimulate new theorizing on space and identity, as well as foster policy-oriented solutions to contemporary urban problems from a social justice perspective.

Grading: 20% final exam, 30% reports/papers, 30% special projects, 20% attendance.

GEND 5263 Advanced General Dentistry Clinical Administration III
S-N only, 1-10 credit(s), max credits 10, 1 completion 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 completion 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 completion allowed;
Instructor: Gambucci, James Robert
Description: Student may contact the instructor or department for information.

GEND 6266 General Practice Clinic III
S-N only, 10-15 credit(s), max credits 15, 1 completion 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 completion 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 completion allowed;
Instructor: Gambucci, James Robert
Description: Student may contact the instructor or department for information.

GCD 3022 Genetics
3 credit(s); prereq BIOL 1002 or BIOL 1009; Credit will not be granted if credit has been received for: BIOL 4003;
Instructor: Brooker, Robert James
Description: Genetics is the branch of biology that deals with heredity. This course is intended to provide students with a broad understanding of genetics. In the first part of the course, the emphasis will be on inheritance patterns. We will be interested in many types of inheritance patterns, including simple "Mendelian" inheritance, extrachromosomal inheritance, linkage, and quantitative traits that are determined by multiple genes. We will then examine the structure, replication, and expression of the genetic material known as deoxyribonucleic acid (DNA). This will involve an understanding of the molecular structure of DNA and its organization into units called genes. The last part of the course will examine genetic technologies. Technologies are used to analyze the genetic compositions of species, and have applications in our everyday lives. Finally, the course will end with a consideration of genetics at the level of populations, and how the genetic composition of populations evolve over time.
Course Outline: Lesson 1: Mendelian Inheritance and
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCD 3022</td>
<td>Genetics</td>
<td>3</td>
<td>BIOL 1002 or BIOL 1009; Credit will not be granted if credit has been received for: BIOL 4003;</td>
<td>Kirkpatrick, David T</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 3015</td>
<td>Genetics Laboratory</td>
<td>2</td>
<td>BIOL 3022 or BIOL 4003 or BiOC 4332;</td>
<td>Franco PhD, Peter John</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4015</td>
<td>Genetics Laboratory</td>
<td>2</td>
<td>BIOL 3022 or BIOL 4003 or BiOC 4332;</td>
<td>Merriman PhD, Peter Jason</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4025</td>
<td>Cell Biology Laboratory</td>
<td>2</td>
<td>BIOL 4004 or instr consent;</td>
<td>Norrander PhD, Jan Marie</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4025</td>
<td>Cell Biology Laboratory</td>
<td>2</td>
<td>BIOL 4004 or instr consent;</td>
<td>Norrander PhD, Jan Marie</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4034</td>
<td>Molecular Genetics</td>
<td>3</td>
<td>BIOL 4003, BIOL 4004; advanced bioscience undergrad recommended;</td>
<td>Simon, Jeffrey A</td>
<td>Description: Molecular genetics of eukaryotes. Topics include gene structure and organization, regulation of gene expression, RNA splicing and processing, chromatin structure and function, chromosome biology, and comparative genome analysis. The course will cover techniques used in molecular genetics research such as recombinant DNA technology, targeted mutations, genome sequencing and manipulation, gene chip technology, and generation of transgenic organisms. The course will also detail the major eukaryotic model systems used in molecular genetics research, including fungi, nematodes, insects, and mice. Assigned readings will be from the textbook “Molecular Biology” (fourth edition by Robert F. Weaver) and will also include 8-12 articles from the primary research literature. Emphasis will be placed on evaluating and interpreting experimental data and approaches that reveal molecular genetic mechanisms. The course is intended for advanced bioscience undergraduates including those considering postgraduate training in biological or biomedical sciences.</td>
</tr>
<tr>
<td>GCD 4111</td>
<td>Histology: Cell and Tissue Organization</td>
<td>4</td>
<td>BIOL 4004 or instr consent;</td>
<td>Bauer, G Eric</td>
<td>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.</td>
</tr>
<tr>
<td>GCD 4134</td>
<td>Endocrinology</td>
<td>3</td>
<td>BIOL 3211 or Biol/BioC 3021 or BiOC 4331 or instr consent;</td>
<td>Iwanij, William Starr</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4143</td>
<td>Human Genetics</td>
<td>3</td>
<td>BIOL 3022 or BIOL 4003 or instr consent;</td>
<td>-</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4151</td>
<td>Molecular Biology of Cancer</td>
<td>3</td>
<td>BIOL 4003;</td>
<td>Bardwell, Vivian June</td>
<td>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.</td>
</tr>
<tr>
<td>GCD 4794W</td>
<td>Directed Research: Writing Intensive</td>
<td>1-6</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 completions allowed;</td>
<td>Gale MD, Cheryl Ann</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4794W</td>
<td>Directed Research: Writing Intensive</td>
<td>1-6</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 completions allowed;</td>
<td>Kren, Betsy Jean</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4794W</td>
<td>Directed Research: Writing Intensive</td>
<td>1-6</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 completions allowed;</td>
<td>Neufeld, Thomas Peter</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4794W</td>
<td>Directed Research: Writing Intensive</td>
<td>1-6</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 completions allowed;</td>
<td>Straka, Robert J</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>GCD 4794W</td>
<td>Directed Research: Writing Intensive</td>
<td>1-6</td>
<td>S-N only, 1-6 credit(s), max credits 42, 7 completions allowed;</td>
<td>Bowles, Walter Ray</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions 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 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Springer, Nathan Michael
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Tam, Ph.D. Patty
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Campbell, Colin R
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions 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 completions 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 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Petzel, Ph.D. Sue V.
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 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Wei, Li-Na
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Vance, Carroll P
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Jardine, Paul James
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Stephens, David William
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Petryk, Anna
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Wright, Robin
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Maynard, Kristen Marie
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 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Ott, Harald
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 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Mashek, Douglas
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 completions allowed; prereq instr consent, dept consent; Meets CLE req of Writing Intensive;
Instructor: Gammill, Laura Susan
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 completions allowed; prereq instr consent, dept consent;
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites/Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCD 4994</td>
<td>Directed Research</td>
<td>Kirkpatrick, David T</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent</td>
</tr>
<tr>
<td>GCD 4994</td>
<td>Directed Research</td>
<td>Schimmenti, Lisa A</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent</td>
</tr>
<tr>
<td>GCD 4994</td>
<td>Directed Research</td>
<td>Tam, PhD, Patty</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent</td>
</tr>
<tr>
<td>GCD 4994</td>
<td>Directed Research</td>
<td>Jemerson, Ronald R</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent</td>
</tr>
<tr>
<td>GCD 4994</td>
<td>Directed Research</td>
<td>Brooker, Robert James</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent</td>
</tr>
<tr>
<td>GCD 4994</td>
<td>Directed Research</td>
<td>Koob, Michael D</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent</td>
</tr>
<tr>
<td>GCD 4994</td>
<td>Directed Research</td>
<td>Koepp, Deanna</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent</td>
</tr>
<tr>
<td>GCD 4994</td>
<td>Directed Research</td>
<td>Kaufman, Dan S</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent</td>
</tr>
<tr>
<td>GCD 4994</td>
<td>Directed Research</td>
<td>Jemmerson, David I</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent</td>
</tr>
<tr>
<td>GCD 8900</td>
<td>Seminar</td>
<td>Elmquist, William Frederick</td>
<td>Student may contact the instructor or department</td>
<td>S-N only</td>
<td>1-6 credit(s), max credits 42, 7 completions allowed; prereq Grad MCDG major or instr consent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
S-N only, 1 credit(s), max credits 4, 4 completions allowed; prereq Grad MCDG major or instr consent; 
Instructor: Koob, Michael D 
Description: Student may contact the instructor or department for information.

GCD 8912 Genetic Counseling in Practice 
A-F only, 4 credit(s); prereq MCDG MS student with genetic counseling specialization or instr consent; 
Instructor: Ahrens, Mary Jarvis 
Description: Student may contact the instructor or department for information.

GCD 8913 Psychosocial 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 completions 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 completions allowed; prereq MCDG MS student with genetic counseling specialization or instr consent; 
Instructor: LeRoy, Bonnie S 
Description: Student may contact the instructor or department for information.

GIS 5572 ArcGIS II 
3 credit(s); prereq [GIS 5561 or equiv], in MGIS program or instr consent; 
Instructor: Lindberg, Mark B 
Description: This course is an advanced course in ArcInfo and has three main components: in-depth exploration of the six themes emphasized in GIS 5571; extension into selected areas (e.g., dynamic segmentation, grid processing, address matching, data exchange, large-scale projects, spatial statistics); and macro-language programming. Students completing this course will be able to work independently at an advanced level in ArcInfo.

GIS 5575 Surveying and the Global Positioning System (GPS) 
2 credit(s); prereq Geog 5561 or equiv, status in MGIS program or instr consent; 
Instructor: Zenk, David A 
Description: This course provides an introduction to surveying techniques of use to GIS professionals, including the Global Positioning System. Topics include: basic traditional survey methods, including horizontal and vertical location techniques; geodesy; data adjustment; datums and ellipsoids; coordinate systems; and transformations. 
Style: 80% Lecture, 10% Discussion, 10% Laboratory. 
Grading: 40% mid exam, 40% final exam, 20% problem solving. 
Exam Format: Multiple choice

GIS 5577 Spatial Data Administration 
2 credit(s); prereq instr consent; 
Instructor: STAFF 
Description: This course prepares students for professional tasks that require administration of spatial databases. Technical topics include: database design; data quality; data maintenance; and technical documentation. Strategic topics include: the role of geographic information within organizations; costs and benefits involved in database administration; and database development project management. The course emphasizes sound database administration procedures in the effective functioning of an organization.

GIS 5578 GIS Programming 
3 credit(s); prereq MGIS student or instr consent; 
Instructor: 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 a 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: 80% Lecture, 40% Laboratory.

GIS 8990 MGIS Capstone Project 
A-F only, 2-6 credit(s), max credits 6, 3 completions allowed; prereq MGIS, instr consent; 
Instructor: McMaster, Susanna Akiko 
Description: Student may contact the instructor or department for information.

Geographic Information Science 
414 Social Science Building

Geography 
414 Social Sciences Building

GEOG 1301W Our Globalizing World 
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive; 
Instructor: Cadieux, Kirsten Valentine 
Description: Course objective: learning to think geographically about our globalizing world. This course is an introduction to themes that connect the experiences of everyday life to processes that are global in scale. We explore human geography approaches to our food, clothing and consumer goods, housing, and transportation systems, and to a wide range of activities that bring the concept of globalization into our experience and our local context. We take as a starting place a variety of activities that draw our attention to global issues, as people figure out how to make their behaviors and decisions meaningful in the difficult-to-grasp context of planetary scale. Concepts from human geography? such as migration, flow, networks, boundaries, place, space, and scale help us understand the many ways we depend upon and influence the networks within which we act. Thinking geographically about our globalizing world may help us interact more thoughtfully with the spheres of influence that affect us and that we affect in our larger regions, nations, and world. In order to achieve the course objective of learning to think geographically about our globalizing world, the course has five themes, or basic outcomes. 1. First, you will learn how to identify, analyze, and address problems related to themes of globalization. These themes are represented in news headlines about environmental and geopolitical issues and also connect to your everyday life, decision-making, and spheres of influence. They include the global networks that affect you and that you affect, 2. Second, you will learn how to locate and collect information about these...
themes and how to critically evaluate the way that this information is created and used. 3. Third, you will learn how to use some of the basic concepts and methods of inquiry and communication that characterize human geography, including how to observe and interpret (or ?to conduct field research on?) human-environment relations in different places and at different scales. 4. Fourth, you will learn how to construct effective arguments and to assess, respect, and engage competing arguments and perspectives?and also how to explore how knowledge, practices, and power are different in different places and spaces, and from different perspectives, particularly in relation to processes of globalization. 5. Fifth, you will develop skills, strategies, and habits to improve your writing, as well as your research, reading, speaking, and listening.

**Style:** 20% Lecture, 10% Discussion, 5% Field Trips. Based on 4 credits = 12 hours / week

**Grading:** 15% mid exam, 15% final exam, 40% special projects, 30% other evaluation. 30%: Participation in discussion sections, summary exercises, & field trips 40%: Term Project, including: Preliminary proposal / letter of intent Explanation of sources Very close to final draft Facilitated discussion of project Final version

**Exam Format:** combination of multiple choice and essay questions

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

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

**GEOG 1973 Geography of the Twin Cities**
3 credit(s); Credit will not be granted if credit has been received for: GEO 1009; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme; Instructor: Pentel,Paula R

Description: This course is a survey of the historical and contemporary geographical patterns of the Twin Cities metropolitan area. Questions raised include: Where are things located? (industry, transportation, housing, people of diverse backgrounds and resources, retail trade and services) Why are they located as they are? What are things like at the neighborhood level and how have these changed over time? How do economic and demographic forces produce changes on the landscape? How do publicly sponsored planning and redevelopment programs try to correct the consequences of past actions? Class format is lecture and discussion. Questions are encouraged. Visual materials (power-point, overhead transparencies, slides, and occasional videos) will be used extensively. Course materials are the same for Geog 1973 and Geog 3973, but 3973 are expected to perform at a much higher level of analysis, and this will be reflected in the point scale for assignments. Two large field studies make up the bulk of the work and most of the readings are on E-reserve.

**Style:** 75% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities

**Grading:** 15% mid exam, 25% final exam, 60% reports/papers.

**GEOG 3101 Geography of the United States and Canada**
4 credit(s); Credit will not be granted if credit has been received for: GEOG 3102; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Hart,John Fraser

Description: A visual tour of the continent, with ca. 80 slides in each lecture. 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 3161 Europe: A Geographic Perspective**
3 credit(s); Credit will not be granted if credit has been received for: GLOS 3921; Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core; Instructor: Saldanha,Arun

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

**GEOG 3321 Geography of the World Economy**
3 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core; Instructor: Sheppard,Eric

Description: This course studies the historical and spatial dynamics of the global economy from the vantage point of economic geography. It traces ongoing transformations in the global economic map by exploring how differences in place, space, scale and networks affect the institutional forms, regional patterns, and local and world dynamics of economic activity. How is the current global economy? How are economic activities clustered in agglomerations (e.g., high-tech in Silicon Valley, finance on Wall Street, low-wage assembly in export processing zones)? What forces lead to the offshoring of jobs, as in Nike's decision to manufacture shoes in Indonesia or GM's decision to assemble cars in Mexico? Why does capital flow to some places and not to others? How does this affect workers and their livelihoods, both within the US and abroad? What are the changing patterns of finance, foreign investment and trade? What are the dynamics of international migration? Does free trade equalize opportunities around the world? How do the environment and the economy affect one another? Do new information technologies mean that the world has become flat? These questions of the local, regional and global location of economic activity, the new forms of production, commerce and inequality that accompany economic diversification or concentration in space, and the spatial interconnectedness of resource flows are all aspects of the dynamic and exciting field.

**Style:** 20% Lecture, 10% Film/Video, 20% Discussion, audio-visual materials

**Grading:** 20% mid exam, 30% final exam, 30% reports/papers, 20% class participation

**Exam Format:** Essay questions

**GEOG 3361W Geography and Public Policy**
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme; meets CLE req of Writing Intensive; Instructor: Squires,Roderick H

Description: Individuals, corporations, and governments use the nation's land surface, water, and air to produce goods (food products, houses, landmines, automobiles, software, and paperclips) and to provide services (education, freedom, health, and welfare). In doing so they construct the artifacts that we see and create the places that we recognize. Landscapes, assemblages of artifacts, and places represent the outcome of rational decisions made by individuals, corporations, and governments. These decisions are made, in part, against a backdrop of the incessant, and often acrimonious, national debate concerning the role and responsibility of the federal government. To understand the decisions, and thus to appreciate landscapes and places, we must understand how the federal government operates, how individuals in the legislative, administrative, and judicial branches of the government reach consensus and compromise about social goals and appropriate individual, corporate, and governmental behavior, and so create incentives, and dis-incentives, for certain types of behavior. We will pay particular attention to some of the documents that are produced during the national debate, the outcome of which is
usually termed 'federal policy'. The course examines landscapes and places as political statements that reflect a past and a present and provide a basis for a future. Target audience, undergraduates in any major. **Style:** 60% Lecture, 40% Laboratory. **Grading:** 100% reports/papers.

**GEOG 3373 Changing Form of the City**
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; **Instructor:** Miller, Roger P  
**Description:** Cities first appeared about 7,000 years ago. Only in the past 100 years have they become the dominant form of settlement in the "developed" world. We study cities not only because we are interested in them for their own sake, but because they serve as mirrors that reflect their makers and inhabitants, albeit imperfectly. In this course you will learn not just about cities, but about the civilizations that made them. The course pays particular attention to ancient cultures and cities; the medieval European city; Renaissance and Baroque cities; mercantile and industrial cities; the development of planning; colonial cities; utopian cities; and planning triumphs and disasters. Although the course draws broadly on world history, enough material will be covered in class to provide at least the rudimentary knowledge needed for this course. The course is primarily lecture, but class discussion is encouraged and solicited. Extensive use is made of slides and other visual aids. The course is intended for undergraduate majors and non-majors. It satisfies the History Core CLE requirement, and the International Perspectives Theme requirement. Texts include Lewis Mumford, *The City in History; John Reps, Town Planning in Frontier America;* and James E. Vance Jr. *The Continuing City; Urban Morphology in Western Civilization.*  
**Style:** 90% Lecture, 10% Discussion.  
**Grading:** 30% mid exam, 35% final exam, 35% reports/papers. **Exam Format:** Essay-questions, distributed before exam, 1 handwritten page of notes allowed.

**GEOG 3374V Honors: The City in Film**
4 credit(s); Meets CLE req of International Perspective 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 3374W The City in Film**
4 credit(s); Credit will not be granted if credit has been received for: GEOG 3374V; 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 3378 Environment and Development in the Third World**
A-F only, 3 credit(s); prerequisite Soph or jr or sr; Credit will not be granted if credit has been received for: GLOS 3303; Meets CLE req of Environment Theme; meets CLE req of International Perspect Theme; **Instructor:** Samatar, Abdi Ismail  
**Description:** This course has three objectives: (a) to advance students' knowledge of the dynamics of capitalism as a global system, its insatiable appetite for resources, and effect on human development; (b) to give students analytical tools to understand the relationship between this expansive system, its enormous productive and destructive capacity (social and ecological); (c) to enable students to gain substantive knowledge about how this system impacts on Africa, Asia, and Latin America, and the social and ecological struggles in those regions. Topic covered include: Dynamics and patterns of economic development; Uneven global consumption of natural resources; Poverty and over-consumption as the twin sources of environmental degradation; Population and development. Urban environment in the Third World; Pros and cons of rural-urban migration; Social and political 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 environmental documentaries. Authors include: Bina Agarwal, Barry Commoner, Michael Watts, P. Blake; Dharan Ghosh-David Harvey. Intended audience: Social and natural science undergraduates.
GEOG 3873 Geography of the Twin Cities
3 credit(s); Credit will not be granted if credit has been received for: GEOG 1973; Meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive; Instructor: Pentel, Paula R
Description: This course is a survey of the historical and contemporary geographical patterns of the Twin Cities metropolitan area. Questions raised include: Where are things located? (industry, transportation, housing, people of diverse backgrounds and resources, retail trade and services) Why are they located as they are? What are things like at the neighborhood level and how have these changed over time? How do economic and demographic forces produce changes on the landscape? How do publicly sponsored planning and redevelopment programs try to correct the consequences of past actions? Class format is lecture and discussion. Questions are encouraged. Visual materials (power-point, overhead transparencies, slides, and occasional videos) will be used extensively. Course materials are the same for Geog 1973 and Geog 3973, but those registered in 3973 are expected to perform at a much higher level of analysis, and this will be reflected in the point scale for assignments. Two large field studies make up the bulk of the work and most of the readings are on E-reserve.
Style: 75% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities.
Grading: 15% mid exam, 25% final exam, 60% reports/papers.

GEOG 3985V Honors Senior Project Seminar
4 credit(s); prereq Honors, instr consent; Meets CLE req of Writing Intensive; Instructor: Ziegler, Susy S
Description: Student may contact the instructor or department for information.

GEOG 3985W Senior Project Seminar
4 credit(s); prereq [jr or sr], instr consent; Meets CLE req of Writing Intensive; Instructor: Ziegler, Susy S
Description: Student may contact the instructor or department for information.

GEOG 4001 Modes of Geographic Inquiry
4 credit(s); Instructor: Henderson, George Lawlor
Description: This is an exciting "ways of knowing" course, applicable to Geography but also to the social sciences, sciences, and humanities more generally. In the course we explore why the geographical interrelatedness of phenomena (e.g. places, people, social, economic, and natural processes) means we need to understand those phenomena from an integrated perspective. We will see, however, that this is not enough: We need to understand that there are profoundly different ways of achieving integrated understandings and that every "integrated" understanding has its blindspots. To do this work we will focus on the topic of "Oil" as an especially important intersection of geography, geology, human history, politics, and more.
Style: 50% Lecture, 50% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: Combined short answer and essay format.

GEOG 3511 Principles of Cartography
4 credit(s); prereq 3 cr in geog or instr consent; Instructor: Edsall, Rob
Description: Student may contact the instructor or department for information.

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 they 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 movies, 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 impact of which cinematic representations of 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 5393 Rural Landscapes and Environments**

*4 credit(s);*

**Instructor:** Hart, John Fraser

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

**GEOG 5401 Geography of Environmental Systems and Global Change**

*4 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: GEOG 3401;*

**Instructor:** Klink, Katherine

**Description:** The underlying theme to this course is that the natural environment provides the resources that sustain humans, and that our well being depends crucially on our interaction and interdependence with the natural environment. We have three main objectives: 1. to understand the processes that create the patterns of the natural environment, specifically the patterns of climate, vegetation, soils and landforms; 2. to comprehend how changes in the processes may influence spatial patterns; and 3. to study the potential of humans to cause changes in processes, spatial patterns, and ultimately, our natural resources. The course topics will be covered with a mixture of lectures, discussion, and computer-based lab work. Lab projects focus on environmental concepts discussed in class (climate, vegetation, and soils geography) and the lab projects lead up to each student's final project. The final (term) project involves evaluating the local effects of global climatic change. Your analysis will focus primarily on a location within the Untied 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. The potential impacts of projected climate change in the future will also be addressed. A mixture of lecture, in class discussion of research articles, and hands-on data analysis are used to explore climate variability.

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

**Grading:** 25% final exam, 25% final exam, 20% reports/papers, 5% in-class presentation, 10% class participation, 15% problem solving.

**Exam Format:** essay

**GEOG 5423 Climate Models and Modeling**

*3 credit(s); prereq 2401 or instr consent;*

**Instructor:** Klink, Katherine

**Description:** This course is a survey of how climate is represented in simple (one-dimensional) and more complex (three-dimensional) climate models. The ultimate objective is for students to become more informed critics of the climate modeling literature by developing an understanding of the basics of climate modeling, and how models are, and can be, used. We evaluate the historical development of models and explore current avenues of research. Student projects include critical reading and discussion of the climate modeling literature, and projects using climate model results. The class format is a mixture of instructor lectures, student-led discussion and presentation, and in class project development. The target audience for the course is advanced undergraduates with some background in environmental or physical science, and graduate students in environmental physical science. Graduate and undergraduate students are graded seperately. The primary text is: A Climate Modeling Primer, 2nd edition (1997), by McGuffie and Henderson Sellers. The text is NOT required for purchase (copies will be on reserve in several campus libraries). Additional readings from the climate modeling literature also will be available on reserve.

**Style:** 40% Lecture, 40% Discussion, 20% Laboratory.

**Grading:** 10% mid exam, 10% final exam, 25% reports/papers, 40% written homework, 5% in-class presentation, 10% class participation.

**Exam Format:** Essay

**GEOG 5426 Climatic Variations**

*3 credit(s); prereq 1425 or 3401 or instr consent;*

**Instructor:** Kiptmuenzel, Kurt

**Description:** Variations in the Earth's climate have been important in shaping landscapes as well as human society. In Minnesota we only need to look around us to see a landscape that was profoundly altered by past glaciers during a cooler climate not so long ago. In addition, Minnesota is strongly dependent on agriculture (with a clear link to climate) and may be sensitive to the vagaries of a changing climate. Currently, there is a strong scientific consensus that human activities have altered climate patterns dramatically. However, it is well known that climate varies due to natural causes as well. How do we gage the impacts of human activities on climate relative to natural mechanisms? How does climate vary over both space and time? What are the characteristic timescales of climate variations and corresponding forcing mechanisms? This course explores climatic variations over the last 2000 years in an effort to better understand these questions. We will examine the climate of the past to better understand current and perhaps future climate variability. We will investigate the various mechanisms--both natural and potentially human caused, that alter climate patterns. The potential impacts of projected climate change in the future will also be addressed. A mixture of lecture, in class discussion of research articles, and hands-on data analysis are used to explore climate variability.

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

**Grading:** 25% mid exam, 25% final exam, 20% reports/papers, 5% in-class presentation, 10% class participation, 15% problem solving.

**Exam Format:** essay

**GEOG 5511 Principles of Cartography**

*3 credit(s);*

**Instructor:** Edsall, Rob

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

**GEOG 5563 Advanced Geographic Information Science**

*3 credit(s); prereq B or better in 3561 or 5561 or instr consent ;*

**Instructor:** Harvey, Francis

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

**GEOG 5565 Geographical Analysis of Human-Environment Systems**

*3 credit(s); prereq 3561 or 5561 or FR 4131 or LA 5573 or on or into GIS course or grad student or instr consent ;*

**Instructor:** Manson, Steven M.

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

**GEOG 8002 Research Methods in Geography**

*3 credit(s);*

**Instructor:** Edsall, Rob

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

**GEOG 8200 Seminar: Urban Geography**

*A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;*

**Instructor:** Kayzar, Brenda
Description: Student may contact the instructor or department for information.

GEOG 8280 Biogeography
3 credit(s), max credits 9, 3 completions allowed; prereq instr consent ;
Instructor: Ziegler, Susy S
Description: Student may contact the instructor or department for information.

GEOG 8289 Seminar in GIS: Spatial Analysis and Modeling
3 credit(s); prereq 3511 [or equiv statistics course], [3561 or 5561 or equiv intro GIS course] or instr consent ;
Instructor: Manson, Steven M.
Description: Overview. Spatial analysis and modeling involves the use of mathematical and computational methods in conjunction with spatial data to explore human and environmental systems. This course is a standard seminar focussed on readings, a student-led presentations, and a final paper. Subject. Spatial analysis and modeling involves the use of mathematical and computational methods in conjunction with spatial data to explore human and environmental systems. Students. Students in this course come from across the social, natural, and information sciences with no clear majority in any one area. Disciplines represented range from conservation biology and ecology to anthropology and geography to bioinformatics and computer science to veterinary science, public health, and public policy. This distribution makes for a lively meeting of the minds. The course is oriented towards MGIS, Masters, or PhD students. Purpose. This course expands on aspects of GIS, statistics, and modeling covered by introductory or advanced GIS classes. It provides an overview of a variety of techniques used in spatial analysis and modeling, not only examining their technical nature but also their larger conceptual dimensions and societal ramifications. Goals. Students who successfully complete this course will better understand a number of spatial analysis and modeling approaches. Depending on student orientation, this course can be used to gain insight into the technical underpinnings of spatial analysis for use on the job, complement on-going research in statistics and modeling, or give essential background knowledge on methodological, theoretical, and policy dimensions of spatial analysis. Prerequisites. In keeping with the prerequisites, students should be proficient in GIS. Students may also find it helpful, but not necessary, to have some background in statistics, calculus, and probability theory. Style. This is an intensive seminar focused on reading and discussion in class and an independent project conducted outside of class meetings. This is a classic graduate seminar and there is no direct instruction offered in GIS software or spatial analysis tools. This course has a substantial reading load, student-led presentations, and a literature review project that balances synthesis and research. Regular participation in class discussion is essential to a successful learning experience. Grading: 64% reports/papers, 17% attendance, 17% in-class presentation. See course website for more 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: Braun,Bruce Philip
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Gidwani,Vinay Krishin
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Ziegler,Susy S
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Mc Master,Susanna Akiko
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Harvey,Francis
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Henderson,George Lawlor
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Manson,Steven M.
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Shuman,Bryan Nolan
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Kipfmueller,Kurt
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Saldanha,Arun
Description: Student may contact the instructor or department for information.

GEOG 8970 Directed Readings
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Kayzar,Brenda
Description: Student may contact the instructor or department for information.

GEOG 8980 Topics in Geography
1-3 credit(s), max credits 15, 10 completions allowed; prereq instr consent ; Instructor: Braun,Bruce Philip
Description: Student may contact the instructor or department for information.

GEOG 8980 Topics in Geography
1-3 credit(s), max credits 15, 10 completions allowed; prereq instr consent ; Instructor: Gidwani,Vinay Krishin
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Adams,John S
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Martin,Judith A
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Lindberg,Mark B
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Leitner,Helga
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Mc Master,Robert B
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Hart,John Fraser
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Gersmehl,Philip J
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: Hartl,John Fraser
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent ; Instructor: 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: Adams,John S
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Sheppard, Eric
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Squires, Roderick H
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Labuz, Joseph F
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Saldanha, Arun
Description: Student may contact the instructor or department for information.

GEOG 8990 Research Problems in Geography
1-5 credit(s), max credits 10; prereq dept consent;
Instructor: Kayzar, Brenda
Description: Student may contact the instructor or department for information.

Geological Engineering
122 Civil & Mineral Engineering

GEOE 3301 Soil Mechanics I
A-F only, 3 credit(s); prereq IT student, AEM 3031; Credit will not be granted if credit has been received for: CE 3301;
Instructor: Guzina, Bojan B
Description: Student may contact the instructor or department for information.

GEOE 4102W Capstone Design
A-F only, 4 credit(s); prereq CE 4301, CE 4401, CE 4501, CE 4502; Meets CLE req of Writing Intensive;
Instructor: 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.

GEOE 4301 Soil Mechanics II
A-F only, 3 credit(s); prereq Upper division student in IT; 3301, CE 3301, or instr consent; Credit will not be granted if credit has been received for: CE 4301;
Instructor: Labuz, Joseph F
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, 4351, CE 4351, or instr consent; Credit will not be granted if credit has been received for: CE 4352;
Instructor: Strack, PhD, Otto D
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 completions 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.

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

GEO 1001 Earth and Its Environments
4 credit(s); Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Hudleston,Peter John
Description: Geology is the study of the Earth and its history. Geological processes have played a profound role in the way life has evolved on this planet and in both subtle and dramatic ways they help shape society and influence our lives today. This course provides an introduction to physical geology, including the materials that make up the Earth, the processes that have shaped both its interior and its surface, and the way the earth has changed with time. We will study among other things the hazards of earthquakes and volcanoes and consider the forces and processes that are responsible for these events. As human population has grown and consumption of earth resources has increased, we have become increasingly aware of the impact of our activities on the Earth and the environment that makes it habitable. The history of geological change provides us with important information on how to understand the interactions between human activities and the natural world and how these change with time.
Style: 85% Lecture, 5% Film/Video, 10% Discussion. Laboratory is separate
Grading: 43% mid exam, 22% final exam, 35% laboratory evaluation. Best 4 scores from 6 mid term tests given throughout the semester, plus final, together make up 65% of grade
Exam Format: Multiple choice, true/false

GEO 1002 Earth History
4 credit(s); Credit will not be granted if credit has been received for: GEO 5002; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core;
Instructor: Matson,Samuel Dean
Description: Student may contact the instructor or department for information.

GEO 1003 Dinosaur Evolution, Ecology, and Extinction: Introduction to the Mesozoic World
3 credit(s); Credit will not be granted if credit has been received for: GEO 5003;
Instructor: Kirkby,Kent Charles
Description: Dinosaurs and the Mesozoic Era are used to introduce four of the most important contributions of geology: geologic time; organic evolution; plate tectonics; and the integration of Earth systems. Our world's dynamic nature is revealed by focusing on an era when the Earth began to evolve its present geography, climate and ecological systems. The course also looks at the history and social implications of dinosaur interpretations. Our views of dinosaurs continues to change with new data and new concepts. Previous interpretations are considered in light of the then-existing evidence and social paradigms. Relatively few workers and a short history make dinosaur studies an excellent case study of the social aspects of scientific investigation. A variety of past and present controversies are covered during the course including: the recognition of fossils as remains of past life, organic evolution, continental drift, dinosaur physiology, the origin of mass extinctions and global warming. Evidence, pro and con, are presented with extended class discussions of the unresolved controversies. This course was designed for undergraduate, non-geology majors. There is an optional (but recommended) trip to the Science Museum.
Style: 85% Lecture, 15% Discussion.
Grading: 100% quizzes
Exams include: 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 Piltdown man controversy centers around the application of quantitative laboratory methods to accurately determine ages of fossil remains. All three demonstrate how people will believe what they want to believe even in a purely scientific context, but where the scientific method applied rigorously and with integrity will lead to uncover scientific fraud.
Style: 65% Lecture, 35% Discussion.
Grading: 45% final exam, 45% reports/papers, 10% class participation.
Exam Format: short essay

GEO 1101 Introduction to Geology
3 credit(s); Credit will not be granted if credit has been received for: GEO 5001; Meets CLE req of Environment Theme;
Instructor: Paola,Chris
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: Kirkby,Kent Charles
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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: Geology is the study of the Earth and its history. Geological processes have played a profound role in the way life has evolved on this planet and in both subtle and dramatic ways they help shape society and influence our lives today. This course provides an introduction to physical geology, including the materials that make up the Earth, the processes that have shaped both its interior and its surface, and the way the earth has changed with time. We will study among other things the hazards of earthquakes and volcanoes and consider the forces and processes that are responsible for these events. As human population has grown and consumption of earth resources has increased, we have become increasingly aware of the impact of our activities on the Earth and the environment that makes it habitable. The history of geological change provides us with important information on how to understand the interactions between human activities and the natural world and how these change with time.
Style: 85% Lecture, 5% Film/Video, 10% Discussion. No laboratory with this version of course
Grading: 67% mid exam, 33% final exam. Best 4 scores from 6 mid term tests given throughout the semester, plus final, together make up 100% of grade
Exam Format: Multiple choice, true/false

GEO 1102 Introduction to Earth History
3 credit(s); Credit will not be granted if credit has been received for: GEO 1002;
Instructor: Kirky,Kent Charles
Description: Designed for undergraduate non-majors GEO 1102, a lecture-based version of GEO 1002, is an introduction to the evolution of Earth systems and life. Throughout the course we trace the development of the present ecosystem through the course of drifting continents, climate change and organic evolution. Along the way, students gain an appreciation of how science works, the interconnections of the Earth's physical and biological components, the fragility of ecosystems and the tenacity of life. The origin of life; causes of mass extinctions; and such major transitions as the rise of eukaryotes, multi-cellular life, and colonization of the land; furnish excellent opportunities to examine how scientific controversies are resolved. An exploration of past cosmologies also provides alternate views of the Earth and an appreciation for how societal views impact scientific investigation. A critical course goal is to provide students with a better understanding of the Earth's nature: how it works, how it has evolved, and how human activity has affected it. Students can become reacquainted with a world in which mammoths still lived while early Egyptian pyramids were built; and in which a combination of human hunting, agriculture, and natural climate change has resulted in extinctions whose scale rivals that of past mass extinction events.
Style: 85% Lecture, 15% Discussion.
Grading: 100% quizzes. grade is based on best 5 of 7 biweekly quizzes and final quiz
Exam Format: multiple choice and short essay

GEO 1105 Geology and Cinema
3 credit(s); Credit will not be granted if credit has been received for: GEO 1005;
Instructor: Revenaugh,Justin
Description: Student may contact the instructor or department for information.

GEO 2302 Petrology
3 credit(s); prereq 2301 or instr consent;
Instructor: Whitney,Donna L
Description: This course is an introduction to the origin and evolution of igneous and metamorphic rocks, with an emphasis on the plate tectonic interpretation of rock sequences. The main goal of the course is to explain how igneous and metamorphic processes have built the Earth's crust. This involves both big-picture concepts (Why do volcanoes occur where they do? What happens when continents collide?) and detail (What is diopside? How do garnets change composition as they grow?). Geoscience majors (geology, geophysics) will gain information and skills necessary to use mineral assemblages and rock textures to interpret the origin and tectonic setting of igneous and metamorphic rocks.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 30% final exam, 30% laboratory evaluation, 10% problem solving. Each half of the class (igneous, metamorphic petrology) has an exam; there is no cumulative final exam.
Exam Format: short answer

GEO 2303W Geochemical Principles
3 credit(s); prereq concurrent enrollment Chem 1021 or instr consent; Meets CLE req of Writing Intensive;
Instructor: Seyfried Jr,William E
Description: Student may contact the instructor or department for information.

GEO 3001 Earth Materials
3 credit(s);
Instructor: Stout,James H
Description: Student may contact the instructor or department for information.

GEO 3001 Earth Materials
3 credit(s);
Instructor: Stout,James H
Description: Student may contact the instructor or department for information.

GEO 3003 Geohazards
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;
Instructor: Moskowitz,Bruce Matthew
Description: Geohazards explores the nature of earthquakes and volcanoes, emphasizing how society evaluates and confronts the dangers posed by these natural phenomena. Students will not only develop an understanding of the scientific basis and technical issues of geologic hazards associated with earthquakes and volcanoes, but also will develop a global perspective on the nature and fundamental causes of these phenomena. Case studies of recent and past earthquakes and volcanic eruptions will be discussed, focusing on both the geological context of the hazard and its impact on society, individuals and the environment. Geo 3003 will also explore the political, social, and ethical questions involved with geological hazards. Geo 3003 is designed for students without an extensive background in science or math and is one part of a 3000 level environmental minor program in Geology and Geophysics.
Style: 90% Lecture, 2% Film/Video, 5% Student Presentation, 3% Web Based.
Grading: 40% mid exam, 25% final exam, 10% reports/papers, 25% special projects.
Exam Format: Exams will consist of short answer, multiple choice and, occasionally, simple numerical problem solving questions

GEO 3093 Problems in Geology and Geophysics: Junior 1-4 credit(s), max credits 6, 6 completions allowed; prereq instr consent;
Instructor: STAFF
Description: Students interested in working on a particular problem or issue in either geology or geophysics can contact the department office for referral to appropriate faculty members. Students will work on a one-to-one basis with a faculty member. Projects may include literature review, laboratory or field work,
or computer modeling. Depending on the scope of the project students can earn from 1-4 credits for each project. This course may be taken more than once when different problems are pursued.

**Style:** varies with instructions  
**Grading:** varies with instructions  
**Exam Format:** varies with instructions

**GEO 3401 Geochronology and Earth History**  
3 credit(s); prereq 2303; Instructor: Runkel, Anthony C  
**Description:** Geo 3401 is a course for Geology majors and studies time in relationship to the history of the earth. The course presents quantitative and relative age-dating techniques based on the fundamental principles of isotopic decay and organic evolution (fossils), paleomagnetism, etc. The class will synthesize much of the student's geologic background and apply it to determinations of geologic time to gain an appreciation of the strengths and weaknesses of currently available chronostratigraphic techniques. The course emphasizes how various dating techniques are used to solve fundamental geologic problems. This includes the use of chronostratigraphic techniques in exploration for precious metals and petroleum, and in hydrogeologic studies, including local examples from Minnesota. Particular emphasis towards the end of the course will be placed on integrating these concepts in an evaluation of the ongoing controversy surrounding the extinction of the dinosaurs at the end of the Cretaceous Period.

**Style:** 50% Lecture, 50% Laboratory.  
**Grading:** 35% mid exam, 35% final exam, 30% laboratory evaluation.  
**Exam Format:** Short answer, essay, multiple choice

**GEO 3401 Geochronology and Earth History**  
3 credit(s); prereq 2303; Instructor: Alexander J. E. Calvin  
**Description:** Geo 3401 is a course for Geology majors and studies time in relationship to the history of the earth. The course presents quantitative and relative age-dating techniques based on the fundamental principles of isotopic decay and organic evolution (fossils), paleomagnetism, etc. The class will synthesize much of the student's geologic background and apply it to determinations of geologic time to gain an appreciation of the strengths and weaknesses of currently available chronostratigraphic techniques. The course emphasizes how various dating techniques are used to solve fundamental geologic problems. This includes the use of chronostratigraphic techniques in exploration for precious metals and petroleum, and in hydrogeologic studies, including local examples from Minnesota. Particular emphasis towards the end of the course will be placed on integrating these concepts in an evaluation of the ongoing controversy surrounding the extinction of the dinosaurs at the end of the Cretaceous Period.

**Style:** 50% Lecture, 50% Laboratory.  
**Grading:** 35% mid exam, 35% final exam, 30% laboratory evaluation.  
**Exam Format:** Short answer, essay, multiple choice

**GEO 3402 Science and Politics of Global Warming**  
3 credit(s); prereq CLA student, completed degree requirements for physical sciences with lab/mathematical thinking; Credit will not be granted if credit has been received for: GEO 5402; meets CLE req of Environment Theme;  
**Instructor:** Matsumoto, Katsumi  
**Description:** Welcome to the Science and Politics of Global Warming! Today media often carry headlines warning the public of the dangers of human-induced global climate change. New signs of global warming, such as retreating mountain glaciers and shrinking Arctic Ocean ice cover, are reported. At the same time there are claims and accusations that global warming is just a hoax. On the political front too, there are conflicting positions about what needs to be done if anything about global climate change. Even amongst those who accept that global warming is occurring, there is little consensus about how to mitigate the human impacts and at what cost. In this course, we will examine global warming from various perspectives, including those of the natural science, political science, public policy, economics, urban/regional studies, engineering, energy, and law. These perspectives will be presented by the course instructor and a number of guest lecturers from various University of Minnesota departments. Specific aims of this course include understanding: (a) science of global warming and the global carbon cycle; (b) economics and energy implications of the CO2 problem; (c) available policy and technical solutions; (d) relating local efforts to global issues; and (e) American politics of global warming. The ultimate goal of the course is to equip students with sufficient knowledge to allow intelligent conversation about global warming and its societal implications.

**Style:** 40% Lecture, 10% Discussion, 10% Student Presentation, 40% Guest Speakers.  
**Grading:** 20% final exam, 10% reports/papers, 10% quizzes, 50% written homework, 10% class participation.

**GEO 3880 Laboratory Workshop**  
1 credit(s), max credits 2; prereq Geo or Geophys or GeoEng major or instr consent;  
**Instructor:** Myrbo, Amy Eleanor  
**Description:** Student may contact the instructor or department for information.

**GEO 3891 Field Methods**  
A-F only, 1 credit(s);  
**Instructor:** Teysseyier, Christian  
**Description:** Student may contact the instructor or department for information.

**GEO 4010 Undergraduate Seminar: Current Topics in Geology and Geophysics**  
1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent;  
**Instructor:** STAFF  
**Description:** Seminar courses are offered to undergraduate students on varying topics taught by departmental faculty. Students interested in learning which seminars are offered during a semester should contact either the department office or individual faculty members. Credit for seminar courses vary from 1-4 credits and this course may be taken more than once.  
**Style:** varies with instructions  
**Grading:** varies with instructions  
**Exam Format:** varies with instructions

**GEO 4093 Problems in Geology and Geophysics: Senior**  
1-4 credit(s), max credits 6, 6 completions allowed; prereq instr consent;  
**Instructor:** STAFF  
**Description:** Students interested in working on a particular problem or issue in either geology or geophysics can contact the department office for referral to appropriate faculty members. Students will work on a one-to-one basis with a faculty member. Projects may include literature review, laboratory or field work, or computer modeling. Depending on the scope of the project students can earn from 1-4 credits for each project. This course may be taken more than once when different problems are pursued.

**GEO 4094 Senior Thesis**  
2 credit(s), max credits 4; prereq Sr, Geo or GeoPhys major, instr consent;  
**Instructor:** STAFF  
**Description:** This course is intended for senior level majors to engage in independent research under faculty supervision. Students select problems according to individual interests and in consultation with faculty committee. Year long project results in a written thesis and oral defense.  
**Style:** varies with instructions  
**Grading:** varies with instructions  
**Exam Format:** varies with instructions

**GEO 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.

GEO 4402 Biogeochemical Cycles in the Ocean
3 credit(s); prereq [Chem 3501, 1 yr of calculus] or instr consent
Instructor: Matsumoto,Katsumi
Description: Welcome to Biogeochemical Cycles in the Ocean! In recent decades, oceans have absorbed roughly 30% of the CO2 emitted to the atmosphere by human activities. This capacity will diminish in the future as the CO2-buffering capacity is eroded and the oceans become more acidic. Nevertheless, the sheer size of the ocean carbon reservoir means that the oceans will remain the ultimate sink for much of anthropogenic CO2 in the coming centuries. Oceans not only play a key role in controlling atmospheric CO2 today, but also were critical 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 will be used to illustrate theoretical discussion. We will then consider 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 examine 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, 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. Interdisciplinary in design, the course will strive for a quantitative description of ocean biogeochemistry, using observations whenever possible to illustrate basic processes and concepts.
Style: 80% Lecture, 20% Discussion.
Grading: 30% final exam, 60% written homework, 10% class participation.

GEO 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.

GEO 4602 Sedimentology and Stratigraphy
3 credit(s); prereq [3402, IT upper div major in [geology or geophysics or geo-engineering or mining engineering] or CLA [jr or sr major in geology]] or instr consent
Instructor: Kleinspehn,Karen L
Description: Student may contact the instructor or department for information.

GEO 4702 General Hydrogeology
3 credit(s); prereq [CHEM 2022, MATH 1271, PHYS 1201, geo major core curriculum through 2402] or instr consent
Instructor: Alexander J.R,Ed Calvin
Description: Student may contact the instructor or department for information.

GEO 5108 Principles of Environmental Geology
3 credit(s); prereq Geology majors: core curriculum through 4501 or instr consent; nonmajors: 1001 or instr consent
Instructor: Pfannkuch,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 ecosytems in general and therefore subject to the same constraints given by the physical and chemical environment. The specific topics use general systems theory and the ecological approach to deal with those aspects of the problem that are truly geologic. A discussion of the flow of energy and materials through biogeochemical cycles focuses on global issues of finite geologic resources, the finite carrying capacity or waste assimilation and processing capacity of the earth, and man's increasing role as a geologic agent. These geologic factors are incorporated into global simulation models to create different scenarios of the future and to spell out options to manage future impacts. Environmental geology is used to examine these world models from a geologic perspective and to realistically assess the risks and limits of the transition to acceptable permanent and sustainable solutions.
Style: 50% Lecture, 20% Discussion. class project (report)
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: essay

GEO 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.

GEO 5353 Electron Microprobe Theory and Practice
3 credit(s); prereq [One yr chem, one yr physics] or instr consent
Instructor: Frahm,Ellery Edward
Description: Please visit the course webpage for additional information. This course aims to familiarize graduate students and advanced undergraduates with the physics behind and instrumentation of electron microprobe analysis and to train students to use the JEOL 8900 Electron Probe Microanalyzer. There are two components to this course: lectures and labs. All students attend all lectures and labs. This course is not mathematically based. Instead, the lectures and readings are intended to develop a conceptual and qualitative or semi-quantitative understanding of the principles and instrumentation of electron microprobe analysis. Concepts are emphasized so that, when one is interested in the mathematical details, one can have a firm foundation on which to build. There will be no weekly problem sets; however, all students are assigned 25 to 50 pages of reading each week, and there will be a quiz at the start of every lecture on the assigned readings. The prerequisites are one year of physics and/or chemistry or instructor consent. Coursework in geology is helpful but not required.
GER 1001 Beginning German
5 credit(s);
Instructor: STAFF
Description: German 1001 is intended for beginners and introduces students to the four language skills areas: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction. Small group work and role-play in class. The text for the course, Wende, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called Oktoberfest, a mystery which takes place in Munich, and grammar reference materials. Students will also complete a variety of writing activities, including essays. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation for each class session hour.

Style: mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 4% special projects, 33% quizzes, 28% class participation, 13% other evaluation. reading/group work assignments and computer and audio lab.
Exam Format: written.

GERI 7100 Oral Health Services for Older Adults Seminar
2 credit(s);
Instructor: Steinhagen,Virginia I
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for policies, including fee and financial aid restrictions. In this course you will learn strategies for studying a foreign language, acquire a basic proficiency in the German language, and gain insights into the culture of countries. This course is designed to help you learn German through a proficiency-oriented process that presents practical information in real-life topics and scenarios. It will prepare you to communicate in the kinds of situations that are likely to arise when traveling in a German-speaking country. In each lesson you will complete learning activities and assessments in this course site and other online activities in the Wende Web site. Each lesson guides you sequentially through five learning areas: vocabulary, grammar, reading, listening, and communicating. After completing the activities for each learning area, you will do a practice exercise. After completing the activities for all five areas, you will complete a free writing assignment, an ungraded lesson review quiz, and a lesson quiz. You must successfully complete all the assessments for a lesson before you can gain access to the assessments for the next lesson. The online practice exercises use a recurring cast of German-speaking characters. As your German study progresses, you will learn more about these people, meet their families, explore their interests and work, and gather information about their community. To be a successful independent learner, you will need to budget your time and work consistently. Here are a few hints to help you stay on track: 1) Establish realistic goals for completing the course. 2) Establish a regular routine for studying, and pace yourself. You will learn more and retain the material better if you make studying for this course a part of your regular daily routine. If you only do a few marathon sessions, you won't learn as much or retain your language skills. Learning a language is a cumulative process in which each lesson and assignment builds on the previous ones. 3) Break large lessons into smaller assignments. It is easier to complete a lesson when you look at it as a series of small steps rather than one large block. After successfully completing this course, you will be able to communicate in simple, everyday situations, such as introducing yourself, greeting people, and describing your family and interests. You will also be able to: --form sentences that use the nominative, accusative, and dative cases. --conjugate German verbs in the present and present perfect tenses. --use common expressions involved in real-life scenarios, such as telling time, describing your daily activities, eating in a restaurant, shopping, and looking for an apartment. --understand short texts and write brief essays on these topics. Instructor e-mail: brook005@umn.edu
Style: 100% Web Based.
Grading: 12% final exam, 44% quizzes. Also: 56 practice exercises: 17%; 11 free writing assignments: 27%;
GER 1002 Beginning German
5 credit(s); prereq 1001;
Instructor: STAFF
Description: German 1002 is intended for students who have completed German 1001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, Wende, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called Grenzverkehr and grammar reference materials. By the end of the course students should be able to compare the German and American educational systems, and describe free-time activities and career choices. They will also have become familiar with various contemporary social issues in the German-speaking countries. Several class sessions will help familiarize students with computer and Internet resources. This course includes process writing assignments. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation time for each class session hour.
Style: Mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 8% special projects, 27% quizzes, 22% class participation, 21% other evaluation. reading/group work assignments and computer/audio lab
Exam Format: written

GER 1003 Intermediate German
5 credit(s); prereq 1002 or Entrance Proficiency Test;
Instructor: STAFF
Description: Students in this course will be working with the course-packet Sprunge and the accompanying listening exercises on Sprunge-Online, short literary texts, a feature film, and online cultural exercises. Topics covered in this course will include free-time activities and travel, living situations, the German educational system, career decisions, and media and technology. The program has a communicative and functional orientation. German 1003 is designed to review basic German language structures and to help students extend their listening and speaking skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in classroom interaction. Several class sessions will help familiarize students with computer and Internet resources. This course includes process writing assignments. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation time for each class session hour.
Style: varies with instructor
Grading: 10% final exam, 15% reports/papers, 6% special projects, 30% quizzes, 8% in-class presentation, 25% class participation, 6% other evaluation. Role-plays
Exam Format: written, oral interviews

GER 1004 Intermediate German
5 credit(s); prereq 1003 or completion of Entrance Proficiency Test at 1004 level;
Instructor: STAFF
Description: 1004 builds on the skills taught in 1003. Students use the course-packet Sprunge 1004 and listening exercises on Sprunge-Online. Read short texts and a play, watch a feature film, and do online cultural exercises. Topics include Berlin, film, and issues of multiculturalism. German 1004 reviews German language structures and helps students extend their listening, speaking, reading and writing skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research. Process-writing essays, presentations, and interviews round out the course. Course materials: Sprunge 1004, Durrenmatt's Die Physiker. (Oxford UP edition).
Style: varies with instructor.
Grading: 15% final exam, 10% reports/papers, 15% special projects, 30% quizzes, 22% class participation, 8% other evaluation. Interviews

GER 1022 Beginning German Review
5 credit(s); prereq 1001;
Instructor: STAFF
Description: Intended for students with previous experience in German, primarily those who have studied German in high school or at community colleges, or who are transfer students. The course involves intensive review of all four language modalities (listening, reading, speaking, writing), with a proficiency emphasis to prepare for German 1003. By the end of the course students should be able to discuss familiar topics, such as every day activities, free-time occupations, or career choices, and have become familiar with some contemporary social issues in the German-speaking countries. There is a cultural reader for this course, Grenzverkehr. This course includes writing assignments that are process-oriented and require students to work together in editing groups. All class sessions involve extensive student interaction and require an average of 2 hours of outside preparation.
Style: student discussion and interaction
Grading: 10% final exam, 12% reports/papers, 4% special projects, 32% quizzes, 29% class participation, 13% other evaluation. reading/group assignment, 4% computer/audio lab
Exam Format: Written

GER 3011W Conversation and Composition
4 credit(s); prereq 1004; Meets CLE req of Writing Intensive;
Instructor: RAHAM, REBECCA A
Description: This course is designed to refine students' oral and written expression and aid in the development of critical analysis skills. Contemporary readings introduce important communicative modes of language (description, narrative, debate, report, text analysis), while a grammar review supports works on finer grammar points. Multimedia materials (video clips, feature films, computer resources) will complement the other instructional materials. Graded work includes active class participation, essay writing and revision, individual and group oral presentations and projects, and informal writing assignments of varying lengths.
Style: 10% Lecture, 10% Film/Video, 30% Discussion, 35% Small Group Activities, 15% Student Presentation.
Grading: 30% reports/papers, 25% quizzes, 10% journal, 25% in-class presentation, 10% class participation.

GER 3014 German Media
3 credit(s); prereq 3011;
Instructor: Raham, Rebecca A
Description: In this course, we will work extensively with German-language media. Media in this context include newspapers, magazines, radio, television, and the internet. We will not only talk about different forms of media and how they present information, entertainment, and advertising, but we will also look at how media are represented and discussed within German culture. The readings selected for the course focus on topics such as the representation of war and sports in media, the development of television in reunified Germany, and the future of radio. We will pursue questions about national identity and the role that media plays in its creation. We will also look at the way media presents and constitutes other categories such as gender, race, and sexuality. You have the opportunity to focus on topics of your own choice for the media research reports that are one component of the course. We will read articles in both English and German to give you background information about various aspects of German media. We will discuss these articles and related topics in German. The course gives you the opportunity to develop your skills reading, writing, speaking and listening to German.
Grading: 45% written homework, 35% in-class presentation, 20% other evaluation. Referate: short presentations on current news or cultural topics

GER 3021 Business German
3 credit(s); prereq 3011 or equiv;
Instructor: Ianeva-Lockney, Arsen
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

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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 this knowledge regarding how to describe the size and activities of a company, how to read an organization chart and interpret graphics. Writing assignments will focus on business correspondence and will include detailed instruction on writing the most frequently used types of letters.

**Style:** 20% Lecture, 20% Discussion, 20% Small Group Activities, 20% Student Presentation, 10% Web Based, in-class writing - 10%

**Grading:** 20% special projects, 20% quizzes, 10% written homework, 10% attendance, 20% in-class presentation, 20% class participation.

**GER 3104W** Reading and Analysis of German Literature
4 credit(s); prereq 3011; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;
**Instructor:** STAFF

**Description:** The course introduces you to selected great works of German literature (prose, poetry, and drama) and to the basic skills of literary interpretation. There will be short background lectures, but the emphasis of the course is on active class discussion in which you are encouraged to respond thoughtfully to the texts. As a Writing Intensive course, Ger 3104 also trains you to formulate interpretive arguments in logical, written form, supported by textual evidence. Readings will be chosen on the basis of their intriguing content as well as their superb literary quality. Conducted in German.

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

**GER 3510 Topics in German Studies:** The Radical Transformation of German Fairy Tales
3 credit(s), max credits 9, 3 completions allowed; prereq 3011;
**Instructor:** Shepela, Anja Schoenberg

**Description:** Once upon a time... The Radical Transformation of German Fairy Tales Once upon a time, long before the arrival of the Brothers Grimm and the Walt Disney Co., fairy tales represented anything but harmless children's stories in many cultures throughout the world. The tales were often marked by violence and other adult themes. Fairy tales in Germany have also undergone a radical transformation over the course of the past two hundred years. Today, we mostly associate fairy tale literature with entertainment that fosters children's imagination. However, this genre can also function as a political tool for building nationalism. The corruption of popular German fairy tales into propaganda by the Nazis during the Third Reich exemplifies this phenomenon. In this course, we will read a variety of German fairy tale texts from the nineteenth to the twenty-first century and trace some of the transformations (both in form and content) of the most popular fairy tales. We will explore the social and political implications of such transformations. We will read feminist adaptations of famous fairy tales. And, last but not least, we will examine the continued presence and significance of the fairy tale in today's popular culture.

**Style:** 20% Lecture, 30% Discussion, 30% Small Group Activities, 20% Student Presentation.

**GER 3512W** German Civilization and Culture: 1700 to the Present
3 credit(s); Meets CLE req of Writing Intensive;
**Instructor:** Mc Cormick, Rick

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

**GER 3520 Topics in Austrian and Central European Culture**
3 credit(s), max credits 9, 3 completions allowed; prereq 3011;
**Instructor:** Oosterhoff, Jenenne A

**Description:** This course is communicatively oriented and designed to refine advanced students' oral and written expression in German and aid in the development of critical analysis skills. The cultural focus of this course is the Austro-Hungarian empire between 1890 and 1914, a short time span with huge socio-historical changes. Course topics include the role of the Habsburg monarchy, the richness of music, art and architecture, politics and antisemitism, the honor code and dueling, Freudian psychoanalysis, "male melancholy" and "female hysteria", sexual morals and practices, and more. Film screenings and other visual materials will enhance the cultural components of this course. With the exception of two background readings, all primary texts by Arthur Schnitzler, Hugo von Hofmannsthal and Robert Musil will be read in German. Class discussions and students' writings are in German.

**Style:** 10% Lecture, 10% Film/Video, 50% Discussion, 20% Small Group Activities, 10% Student Presentation.

**Grading:** 20% journal, 30% reflection paper, 20% in-class presentation, 30% class participation.

**GER 3531 Selected Writings in German Intellectual History**
3 credit(s); prereq 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 CSCCL. 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 Oldest Systematic Program of German Idealism (1796) Novalis, Soliloquy (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 Reproducability (1936) Herbert Marcuse, The Affirmative Character of Culture (1937) Martin Heidegger, The Age of the World Picture (1938) Max Horkheimer/Theodor W. Adorno, Odysséus 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 3593 Directed Studies:** German-Speaking Countries
4 credit(s), max credits 12, 3 completions allowed; prereq 3011, dept consent;
**Instructor:** STAFF

**Description:** Preparation for research abroad during semester before departure. Written and oral reports upon return.

**GER 3610 German Literature in Translation: Music, German Politics & Culture:** Wagner to Hitler
3 credit(s), max credits 9, 3 completions allowed; prereq No knowledge of German required; cr toward major or minor requires reading in German;
**Instructor:** Painter PhD, Karen

**Description:** From the philosopher Friedrich Nietzsche to Hitler, music had a profound influence on German politics and society. This course examines seminal musical works from the 19th and 20th centuries in the context of literary texts (Oscar Wilde, Thomas Mann, and Bertolt Brecht), ideologies (nationalism, anti-Semitism, socialism, and fascism), and political contexts (the 1848 revolutions, World War I, World War II, and the Holocaust). The repertoire studied includes symphonies by Beethoven, Bruckner, and Mahler, as well as dramatic and theatrical works by Wagner, Richard Strauss, Alban Berg, Kurt Weill, and Carl Orff. Why was Hitler obsessed with Wagner? How did music serve to torture and console in the Nazi death campus? How did music function as propaganda, and how does this affect the interpretation of this music today? No musical background necessary.
GER 3701 History of the German Language
3 credit(s); prereq 1004;
Instructor: Hoptman,Art E
Description: Student may contact the instructor or department for information.

GER 3993 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

GER 4001 Beginning German
2 credit(s); prereq Grad student;
Instructor: STAFF
Description: German 1001 is intended for beginners and introduces students to the four language skills areas: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, Wende, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called Oktoberfest, a mystery which takes place in Munich, and grammar reference materials. Students will also complete a variety of writing activities, including essays. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation for each class session hour.
Style: mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 4% special projects, 30% quizzes, 30% class participation, 14% other evaluation. reading/group work assignments and computer and audio lab.
Exam Format: written.

GER 4002 Beginning German
2 credit(s); prereq Grad student;
Instructor: STAFF
Description: German 1002 is intended for students who have completed German 1001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening, and reading. Homework assignments become the basis for student-to-student interaction, small group work and role-play in class. The text for the course, Wende, covers speaking and writing in daily contemporary issues and stresses reading and listening strategies useful in language learning. Along with this textbook we use a German cultural reader called Grenzverkehr and grammar reference materials. By the end of the course students should be able to compare the German and American educational systems, and describe free-time activities and career choices. They will also have become familiar with various contemporary social issues in the German-speaking countries. Several class sessions will help familiarize students with computer and Internet resources. This course includes process writing assignments. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation time for each class session hour.
Style: Mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 4% special projects, 30% quizzes, 30% class participation, 14% other evaluation. reading/group work assignments and computer/audio lab
Exam Format: written

GER 4003 Intermediate German
2 credit(s); prereq Grad student;
Instructor: STAFF
Description: Students in this course will be working with the course-packet Sprunge and the accompanying listening exercises on Sprunge-Online, a variety of writing activities, including essays. First-year language courses involve extensive student interaction, partner activities, and group work. Expect an average of 1.5 hours of outside preparation for each class session hour.
Style: Mostly discussion and student involvement and interaction.
Grading: 10% final exam, 12% reports/papers, 4% special projects, 30% quizzes, 30% class participation, 14% other evaluation. reading/group work assignments and computer/audio lab
Exam Format: written

GER 4004 Intermediate German
2 credit(s); prereq Grad student;
Instructor: STAFF
Description: 1004 builds on the skills taught in 1003. Students use the course-packet Sprunge 1004 and listening exercises on Sprunge-Online, read short texts and a play, watch a feature film, and do online cultural exercises. Topics include Berlin, film, and issues of multiculturalism. German 1004 reviews German language structures and helps students extend their listening, speaking, reading and writing skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research. Process-writing essays, presentations, and interviews round out the course. Course materials: Sprunge 1004, Durrenmatt's Die Physiker. (Oxford UP edition).

GER 4040 German Play: Oral Interpretation and Performance of German
1-3 credit(s), max credits 9, 3 completions allowed;
Instructor: Brungs,Juliette
Description: Students may contact the instructor or department for information.

GER 5016 Advanced Translation: Theory and Practice
3 credit(s); prereq 5721 or instr consent ;
Instructor: Firchow,Evelyn S
Description: This course will continue the grammar review begun in German 5011, using Dryer/Schmitt. During this semester the emphasis will be on translating selected texts from German to English and English to German; Every student will have a choice of a German text to translate in lieu of a final examination. An oral class report will be given on this text and its translation. A German essay will also be assigned.

GER 5722 Middle High German: Advanced Readings
3 credit(s); prereq 5721;
Instructor: Firchow,Evelyn S
Description: This course is a continuation of German 5721. We will be reading and analyzing medieval literature in the original. A basic reading knowledge of MHG is expected and translations will be into English. MHG grammar will be studied in depth. We will be reading selections from MHG Minnesang as well as parts of the famous medieval epic "Tristan" by Gottfried von Strassburg - the Vienna edition. Students will write a paper on a topic of their choice.

GER 5993 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
GER 8210 Seminar in Early Modern German Literature and Culture
3 credit(s); max credits 9, 3 completions allowed;
Instructor: Parente Jr., James Andrew
Description: Student may contact the instructor or department for information.

GER 8300 Topics in Literature and Cultural Theory: Marginallia
3 credit(s); max credits 9, 3 completions allowed;
Instructor: Morris, Leslie C
Description: Student may contact the instructor or department for information.

German, Scandinavian, and Dutch
205 Folwell Hall

GSD 8002 Interdisciplinary Approaches to Textual Analysis
3 credit(s);
Instructor: Hueser, Rembert
Description: Student may contact the instructor or department for information.

Gerontology
D-351 Mayo (Box 197 UMHC)

GERO 5110 Biology of Aging
3 credit(s);
Instructor: Snow, MD, PhD, LeAnn M
Description: Student may contact the instructor or department for information.

GERO 5191 Independent Study: Gerontology
OPT No Aud, 1-4 credit(s), max credits 16, 4 completions allowed;
prereq Approval of [adviser, DGS] for gerontology minor;
Instructor: Ferrington, Deborah Ann
Description: Student may contact the instructor or department for information.

Global Studies
214 Social Science

GLOS 3143 Living in the Global
A-F only, 3 credit(s);
Instructor: Wolfe, Thomas C
Description: This course is a small, upper-level seminar that begins with a simple enough question: how do we think of ourselves as inhabiting a globe, as experiencing something global? It is safe to say that a century ago, the average person was much less aware that they inhabited a ball whose surface was covered with an unthinkable amount of both human and non-human diversity. Today, by contrast, every publication seems to proclaim it; we are incessantly reminded of globization, even as there is no consensus as to what this process really is. Not paying attention to globalization is tantamount to being left behind by the wave of supposedly global advance. But what is really involved with living in which we are present to the world in ever new ways? The course is based on one main assumption: that living in the global? presents problems of understanding, problems that have no easy answers, or perhaps no answers at all. Therefore the course has one main goal: to explore the nature of our current understanding of being both a witness to the global, of being a producer of knowledge about the global, and of experiencing the global in both mundane and profound ways. A central feature of the course is that it gives you the space to reflect on your own education. There is no bounded body of knowledge that I am teaching you; there is no content that I will test you on. The only goal is to end the class a different person than when you started it. This ?becoming a different person? is in one sense obvious; time passes and we can?t help but to change as things happen to us. But the kind of change we will discuss is different; it comes from cultivating a more observant, more curious, more inquisitive, and more sensitive orientation to one?s world. There is no textbook for this, no foolproof series of steps that will bring this about. It is about adding a new capacity to the resources that one brings to life. We will examine topics that include the collapsing of time and space, religious framings of human problems, cosmopolitan understanding, and social and political activism.
Style: 10% Lecture, 40% Discussion, 40% Small Group Activities, 10% Student Presentation.
Grading: 40% journal, 20% reflection paper, 20% in-class presentation, 20% class participation.

GLOS 3145 Theoretical Approaches to Global Studies
A-F only, 4 credit(s); prereq 6 credits in the social sciences including at least one of the following: Geog 1301; Hist 1012/1018; GloS 1015W; or PolSci 1025 or instr consent;
Credit will not be granted if credit has been received for: GLOS 3145H;
Instructor: Goldman, Michael R
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 3145;
Instructor: Goldman, Michael R
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 Perspectives 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. Blaikie; Dharam Ghaï; David Harvey. Intended audience: Social and natural science undergraduates.
Style: 65% Lecture, 35% Discussion.
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 20% class participation.

GLOS 3305 Life for Sale: Global Debates in Environment, Science, and Society
A-F only, 3 credit(s); prereq At least soph;
Instructor: Craddock, Susan L
Description: This course examines some of the most hotly debated topics in biomedicine, the sciences, and the...
environment today. We will look at issues such as the patenting of plant, animal, and human genes and cells, vaccine trials, genetically modified organisms, environmental waste, new reproductive technologies, commerce in body parts, genetic research, global warming, and more from the perspective of what makes these issues controversial, who benefits and who does not, who determines the direction scientific and medical research takes, how these topics are presented to society, and what is their larger impact on social thinking and practices.

GLOS 3402 Human Rights Internship
A-F only, 3 credit(s); prereq 3401, instr consent;
Instructor: Frey, Barbara A
Description: Student may contact the instructor or department for information.

GLOS 3643 Islam and the West
3 credit(s); Credit will not be granted if credit has been received for: CAS 3533;
Instructor: Bashiri, Iraj
Description: Intellectual trends defining fundamental differences between Islam and the West arise from their respective historical, philosophical, and intellectual minds. The course examines contributing factors to tension, anxiety, and hatred between Muslims and the West, as well as aspects of Islamic and European cultures that inspire respect and emulation. Objectives: - Acquaint the students with the fundamental differences between Islam and Western culture. - Equip students with the means for a better understanding of international events. - Teach students to distinguish different trends and accept them for what they are. - Discuss factors that create tension, anxiety and hatred among peoples and nations. - Examine aspects of Islamic and European cultures that inspire respect and emulation. Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation. Grading: 37% reports/papers, 20% special projects, 40% quizzes, 3% attendance.

GLOS 3900 Topics in Global Studies
3 credit(s), max credits 15, 3 completions allowed;
Instructor: Schurman, Rachel
Description: Did you ever wonder why so many of the items you buy at Target come from China or why a financial crisis that started on Wall St. and was rooted in U.S. mortgage securities caused the economy of Iceland to collapse? And why is the U.S. auto industry, once a motor of economic growth for the country and a key source of class mobility for many working class Americans, practically a thing of the past? This course will focus on the changes that have taken place in the global economy over the last sixty or so years, and the economic theories, institutional changes, and technological developments that have undergirded them. More concretely, we will examine the movement away from relatively regulated national economies and the rise of neoliberal ideology and policy. Among the substantive topics we will explore are the emergence of China as an economic powerhouse, the transformation of work associated with the new ‘knowledge economy,’ the World Trade Organization and new intellectual property rights regimes, changing cultures of capitalism, the Walmart phenomenon (in all its complexity), and the recent global financial crisis. Grades will be based on class attendance and active participation (25%), weekly one-page commentaries on the readings (20%), a mid-term exam (25%), and student research projects which will involve a class presentation and final paper (30%).
Style: 40% Lecture, 10% Film/Video, 30% Discussion, 5% Small Group Activities, 10% Student Presentation, 5% Guest Speakers.
Grading: 25% mid exam, 25% special projects, 20% written homework, 5% in-class presentation, 25% class participation. Students will do an individual or group project that will include an in-class presentation and an 8-10 page final paper.
Exam Format: The mid-term exam will include short answers and two longer, in-class essays.

GLOS 3900 Topics in Global Studies
3 credit(s), max credits 15, 3 completions allowed;
Instructor: Wolpert, Barbara
Description: Student may contact the instructor or department for information.

GLOS 3920 Topics in European Studies: Contemporary African Francophone Theater
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Ngilla, Sylvie
Description: Student may contact the instructor or department for information.

GLOS 3920 Topics in European Studies: The Radical Transformation of German Fairy Tales
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Shepela, Anja Schoenbeng
Description: Once upon a time... The Radical Transformation of German Fairy Tales Once upon a time, long before the arrival of the Brothers Grimm and the Walt Disney Co., fairy tales represented anything but harmless children's stories in many cultures throughout the world. The tales were often marked by violence and other adult themes. Fairy tales in Germany have also undergone a radical transformation over the course of the past two hundred years. Today, we mostly associate fairy tale literature with entertainment that fosters children's imagination. However, this genre can also function as a political tool for building nationalism. The corruption of popular German fairy tales into propaganda by the Nazis during the Third Reich exemplifies this phenomenon. In this course, we will read a variety of German fairy tale texts from the nineteenth to the twenty-first century and trace some of the transformations (both in form and content) of the most popular fairy tales. We will explore the social and political implications of such transformations. We will read feminist adaptations of famous fairy tales. And, last but not least, we will examine the continued presence and significance of the fairy tale in today's popular culture.
Style: 20% Lecture, 30% Discussion, 30% Small Group Activities, 20% Student Presentation.

GLOS 3930 Topics in Latin American Studies: Gender, Writing and Film in Latin America
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Forcinito, Ana
Description: Student may contact the instructor or department for information.

GLOS 3993 Directed Study
1-5 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

GLOS 4221 Globalize This! Understanding Globalization Through Sociology
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: SOC 4321; Meets CLE req of International Perspect Theme;
Instructor: Goldman, Michael R
Description: From the factories of Shanghai to the high plateaus of Bolivia to the trading floors of New York City, people from around the world are becoming increasingly interdependent. This course offers an overview of the processes that are forcing and encouraging people's lives to intertwine economically, politically, and culturally. We will start with the most basic questions: What is this thing called globalization? Is it all new? What are the forces behind it? Second, we will explore the idea that this era of globalization is marked by dramatic transformations in the ways we work, do politics, play, and communicate. Moreover, we will look into the ideas that capitalism has changed significantly, that the division between rich and poor has intensified, and that the sovereignty of governments and the basic rights of people are being challenged. We will learn about a few key actors, such as the World Bank and the World Trade Organization, and understand their main objectives and effects. We will discuss the world of immigration, of fast-moving finance capital and...
Hollywood/Bollywood cultural products, and the slower moving domains of everyday life, as they are experienced in Jamaica, the U.S., Mexico, India, Bolivia, Argentina, and South Africa. Along the way, we will look at globalization from below, or social movements working to bring about social change (within and across national boundaries) by contesting the worst effects of economic, political, and cultural globalization. In all, this course will use a number of texts, films, lecture, discussion, and student debates, to help us become fluent in the different scholarly concerns on globalization and its many social forces, connections, and imaginations.

GLOS 4910 Topics in Global Studies: Crime and Human Rights
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Savelisberg, Joachim J
Description: This course addresses serious violations of humanitarian and human rights laws, efforts to criminalize those violations (laws and institutions), and consequences of these efforts. Special attention will be paid to the impact interventions have on memories of atrocities such as memories are likely to affect the future cycles of violence. Section I provides an overview of the basic themes of this class and their interconnection: atrocities, legal and other institutional responses, and the ways responses mediate memory. Section II addresses a series of cases in which responses to past atrocities included criminal prosecution and trials: the Holocaust, the Balkan wars, and the My Lai massacre during the Vietnam War. A special focus will be on the violence in the Darfur region of Sudan. Section III will examine cases in which a major response to atrocities was truth commissions, at times combined with trials and compensation programs. Special cases include South Africa, Argentina, and post-Communist Eastern Europe. Section IV addresses the consequences of interventions and memories for ending cycles of violence.
Style: 65% Lecture, 10% Film/Video, 20% Discussion, 5% Small Group Activities.
Grading: 50% mid exam, 30% final exam, 10% written homework, 10% class participation.

GLOS 4910 Topics in Global Studies: Society and the Environment: A Growing Conflict
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Broadbent, Jeffrey Rae'd
Description: Human society and the natural environment have always affected each other, but with the growth of population, technology and prosperity, the human effect has magnified greatly. These days, our impact is changing the entire ecological system of the planet with potentially disastrous affects for all living creatures. Global warming, as well as species extinction and the decline of coral reefs and rainforests exemplify these trends. To reduce these problems, humans need to rapidly learn new ways to build satisfying and just societies on a very low energy budget, with most of that energy coming from non-fossil fuel sources. Environmental sociology studies the social causes for our worsening relation with the environment and also how we can improve this situation. The class will cover readings on the ideas of environmental sociology with examples of their use to analyze the causes of environmental problems and their solutions as well. Along with lectures, students will do exercises designed to give you new ways of seeing environmental problems, and also write short essays on selected issues. We will have some pop quizzes and two essay exams.
Style: 60% Lecture, 40% Discussion.
Grading: 25% mid exam, 25% final exam, 24% special projects, 5% quizzes, 21% written homework.
Exam Format: essay

Graduate School
316 Johnston Hall

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: Beers, Barbara Lee
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:

GRAD 5105 Practicum in University Teaching for Nonnative English Speakers
S-N only, 2 credit(s); prereq [SPEAK score of 50 or [5102 or SPEAK score of 50], instr consent;
Instructor: Meyers, Colleen Marie
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 SPEAK score of 50], instr consent;
Instructor: Rosen, Caroline Frances
Description:

GRAD 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: Simmons, Steve Robert
Description: GRAD 8101 is designed to help graduate students and post-doctoral fellows become responsive and reflective teachers. Co-teachers along with course participants will model a variety of active learning strategies and will facilitate discussions addressing educational theory and practice. By combining action and analysis, participants will explore and develop teaching skills that promote learning within a diverse student body across a variety of settings.

GRAD 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: El-Fakahany, Eman E
Description: Student may contact the instructor or department for information.

GRAD 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: Rozitis, Bill
Description:

GRAD 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: McComas DVM, Rebecca M
Description:

GRAD 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: Ching, Paul
Description: GRAD 8101 is designed to help graduate students and post-doctoral fellows become responsive and reflective teachers. Co-teachers along with course participants will model a variety of active learning strategies and will facilitate discussions addressing educational theory and practice. By combining action and analysis, participants will explore and develop teaching skills that promote learning within a diverse student body across a variety of settings.

GRAD 8102 Practicum for Future Faculty
S-N only, 3 credit(s); prereq [5101 or equiv], [native English speaker or [SPEAK Test score of at least 55/60 or ELP score of 1 from [5102, 5105]];
Instructor: Gonzalez PhD, Anita Marie
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 at least 55/60 or ELP score of 1 from [5102, 5105]];
Instructor: Petersen, Christina Ingrid
Description:

GRAD 8200 Teaching and Learning Topics in Higher Education
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Ferguson, Jeanine
Description:

GRAD 8200 Teaching and Learning Topics in Higher Education
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Baeppler, Paul Michel
Description: As future faculty, most graduate students will need to lecture, and to be effective they will need to develop a range of strategies to engage today’s tech-savvy students. Best practices for lecturing have evolved to take advantage of visual literacy, instant feedback, peer-led instruction, and large class assessment techniques. Following the lead of programs in physics, biology, and astronomy throughout the nation, this course focuses on redesigning “traditional” lectures to incorporate active learning and collaborative student interactions. This student-centered learning model leverages the smart use of technologies—PowerPoint, the web, personal response systems (“clickers”), and multimedia simulations—to facilitate learning.

GRAD 8200 Teaching and Learning Topics in Higher Education
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Huchendorf, Steven Craig
Description:

Greek
245 Nicholson Hall

GRK 1002 Beginning Classical Greek II
5 credit(s); prereq Grade of at least [C- or S] in 1001 or instr consent;
Instructor: STAFF
Description: Poetry, history, religion, medicine, philosophy, drama, political science, biology, literary criticism, astronomy, rhetoric, mythology, geography... Whether you want to read Homer or Hippocrates, Aristotle or Aristophanes, Paul or Plato, Greek 1001-1002 is the place to start. In this class you will learn the elements of classical Attic Greek, the dialect spoken and written in Athens during the fifth and fourth centuries BC; a language of tragedy, comedy, oratory, history, and philosophy. With a knowledge of the basic grammar and vocabulary of Attic, you can later go on to read the epics of Homer, the letters of Paul, the comedies of Aristophanes, or whatever you’d like from texts spanning 1200 years of history. Prerequisite: C- or better (or S) in GRK 1001, or instructor consent.

GRK 3004 Intermediate Greek Poetry: Homer
4 credit(s); prereq [Grade of at least [C- or S] in [3003, 3113]] or dept consent credit will not be granted if credit already received for: Grk 3114, Grk 3300;
Instructor: Smith, Stephen
Description: Translation and discussion of selections from Homer’s Odyssey; introduction to conventions of Greek epic poetry, including meter.

GRK 5004 Intermediate Greek Poetry: Graduate Student Enrollment
3 credit(s); prereq [5003 or equiv], grad student;
Instructor: Smith, Stephen
Description: Translation and discussion of selections from Homer’s Odyssey; introduction to conventions of Greek epic poetry, including meter.

GRK 5100 Advanced Reading: Lysias & Demosthenes
3 credit(s), max credits 18, 6 completions allowed; prereq [3004, at least two years of college level Latin] or dept consent or CNES grad student;
Instructor: Olson, S Douglas
Description: Student may contact the instructor or department for information.

GRK 8400 Readings in Patristic Greek: Alexandrian theology & tradition
3 credit(s), max credits 6; prereq Advanced grad student;
Instructor: Sellow, Philip
Description: Student may contact the instructor or department for information.

GRK 8910 Seminar
3 credit(s), max credits 30, 10 completions allowed;
Instructor: Krevans, Nita
Description: Student may contact the instructor or department for information.

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.

Health Systems Management
20 Classroom Office Building

HSM 4501 Writing for the Health Professions
A-F only, 3 credit(s); prereq 45 cr;
Instructor: Bahar, Keri L
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, fees, and financial aid information. Students in this course apply the learning and skills acquired in HSM 3501 to writing a journal article on a clinical case or relevant health care topic in their own discipline. The application of research findings, described as evidence-based practice, is applying research to a clinical practice area of health care, a field where decisions are complex with very few clinical decisions having straightforward rules. Case reports and journal articles are one way to develop professional writing skills, foster critical thinking, relate clinical practice to research findings, develop an ability to take a position on a clinical issue, and base practice on evidence. Students in this course work with two or three students (coauthors) from their own or a related discipline to write a case report or article. Together they develop a case or
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSM 4541</td>
<td>Health Care Finance</td>
<td>Riley, William J</td>
<td>This course is designed to provide an understanding of finance in the healthcare industry through a discussion of how the healthcare industry's financial information is interpreted and used. The course aims to make the language of health care finance understandable and relevant for students in health care professions and in administration programs.</td>
</tr>
<tr>
<td>HSM 4561</td>
<td>Health Care Administration and Management</td>
<td>Brown, Maria L</td>
<td>Students acquire background and skills in the business and administrative aspects of health care. Applications of business theory are applied to medical settings including: organization models, reimbursement methodologies, information systems, staff-scheduling, employee evaluation, accreditation agencies, productivity management, budget planning, and group leadership. Semester Prerequisite.</td>
</tr>
<tr>
<td>HEBR 4002</td>
<td>Beginning Biblical Hebrew II</td>
<td>Schneller, Renana Segal</td>
<td>This four-credit course, which continues HEBR 1001, provides a systematic introduction to the language, grammar, and vocabulary of the Hebrew Bible/Old Testament.</td>
</tr>
<tr>
<td>HEBR 3012</td>
<td>Intermediate Hebrew II</td>
<td>Schneller, Renana Segal</td>
<td>This is a fully online section offered through Online Distance Learning (ODL), College of Continuing Education.</td>
</tr>
<tr>
<td>HEBR 3980</td>
<td>Directed Instruction</td>
<td>STAFF</td>
<td>Students may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

**Hebrew 245 Nicholson Hall**

**HEBR 1002 Beginning Hebrew II**
5 credit(s); prerequisite 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: This four-credit course, which continues HEBR 1001, provides a systematic introduction to the language, grammar, and vocabulary of the Hebrew Bible/Old Testament. This course is designed for students who have completed HEBR 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); prerequisite 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: Levinson Ph.D, Bernhard M

Description: This four-credit course, which continues HEBR 1001, provides a systematic 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. This course will benefit students interested in the language, religion, culture of ancient Israel and the ancient Near East. It will also permit students to read and understand the language of the Dead Sea Scrolls, ancient Judaism, and medieval exegesis. It provides a valuable foundation for modern Hebrew literature, and provides the essential background for subsequent work in graduate school or seminary. Students will learn ways to approach learning a classical language. Classes include grammar exercises, translation, and oral drills. HON by petition. Prerequisite: HEBR 1101 or instructor's permission.

Style: 70% Lecture, 30% Discussion; Grading: 30% mid exam, 20% final exam, 20% quizzes, 10% written homework, 20% additional semester exams. There are two mid-terms and a final.

Exam Format: grammar and translation.

**Nesbet 400**

**HEBR 3951W Major Project**
4 credit(s); prerequisite [Hebrew major, three 3xxx Hebrew courses], instr consent, dept consent; Meets CLE req of Writing Intensive; Instructor: STAFF

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

**HEBR 3980 Directed Instruction**
1-4 credit(s), max credits 4, 1 completion allowed; prerequisite college consent; Instructor: STAFF

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

**HEBR 4002 Beginning Hebrew II**
3 credit(s); prerequisite Grade of at least [C- or S] in [1001 or 4001] or instr consent; Credit will not be granted if credit has been received for: HEBR 1002; Instructor: Schneller, Renana Segal

Description: Hebrew 4002 is intended for students who have completed Hebrew 4001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening and reading. First year language courses involve extensive student interaction, partner activities, and group work. The text of the course, Hebrew from Scratch, the book is accompanied by CD's that are designed to be studied outside class. Grammar is covered in the homework assignments and reinforced in class with a variety of paired and small group activities. Hebrew is spoken almost exclusively in class. Class attendance is critical. The course prepares students for the CLA language requirements.

Style: 33% Lecture, 33% Discussion; Grading: 20% mid exam, 25% final exam, 20% reports/papers, 25% quizzes, 10% class participation.

Exam Format: multiple choice, fill in the blank and a small essay.
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.

**HEBR 4105 Basics of Biblical Hebrew II**
3 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 1102; Instructor: Levinson PhD,Bernard M
Description: This four credit course, which continues Hebr 1101, provides a systematic 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. This course will benefit students interested in the language, religion, culture of ancient Israel and the ancient Near East. It will also permit students to read and understand the language of the Dead Sea Scrolls, ancient Judaism, and medieval exegesis. It provides a valuable foundation for modern Hebrew literature, and provides the essential background for subsequent work in graduate school or seminary. Students will learn ways to approach learning a classical language. Classes include grammar exercises, translation, and oral drills. HON by petition. Prerequisite: Hebr 1101 or instructor's permission.
Style: 70% Lecture, 30% Discussion.
Grading: 30% mid exam, 20% final exam, 20% quizzes, 10% written homework, 20% additional semester exams. There are two mid-terms and a final.
Exam Format: grammar and translation

**HEBR 5992 Directed Readings**
1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent , dept consent , college consent ; Instructor: STAFF
Description: Student may contact the instructor or department for information.

**Hindi**

**453 Folwell Hall**

**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 Usha Jain's textbook and Advanced Grammar Book. 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 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;

**268**
HIST 1000W Visions of the Past: Thematic Approaches to Understanding History: The History of War
0 credit(s), max credits 8; prereq Fr or soph or fewer than 60 cr 1000W and 3000W-level of the same sect/version of Hist 1000W/3000W shall be considered equiv; students may not register for Hist 3000W when the Hist 1000W version was successfully completed.; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Issett, Christopher Mills
Description: Student may contact the instructor or department for information.

HIST 1000W Visions of the Past: Thematic Approaches to Understanding History: Capitalism in US History
4 credit(s), max credits 8; prereq Fr or soph or fewer than 60 cr 1000W and 3000W-level of the same sect/version of Hist 1000W/3000W shall be considered equiv; students may not register for Hist 3000W when the Hist 1000W version was successfully completed.; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Deutsch, Tracey A
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 1019 Globalization: Issues and Challenges
3 credit(s); prereq credit will not be granted if credit received for: 1015W, 1015V, Glos 1015W, Glos 1015V; Credit will not be granted if credit has been received for: GLOS 1015W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Biel, Justin Blake
Description: Student may contact the instructor or department for information.

HIST 1026 Europe and the World: Expansion, Encounter, and Exchange to 1500
3 credit(s); Credit will not be granted if credit has been received for: HIST 1031V; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme;
Instructor: Hill, Gabriel
Description: Europe in the making, from Hammurabi to Columbus. Heyday of ancient Near East, Late Middle Ages. Culture, European interactions with wider world through religion, conquest, and trade. Beginning of the age of discoveries.

HIST 1032W Europe and the World: Expansion, Encounter, and Exchange From 1500 to Present
4 credit(s); prereq Fr or soph or [[jr or sr], non-Hist major]; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Schroeder, Daniel J
Description: Student may contact the instructor or department for information.

HIST 1302W Global America: U.S. History Since 1865
4 credit(s); prereq Fr or soph or [[jr or sr], non-major]; 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: Student may contact the instructor or department for information.

HIST 1307 Authority and Rebellion: American History to 1865
3 credit(s); Credit will not be granted if credit has been received for: HIST 1301W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;
Instructor: Holdren, Nate
Description: Student may contact the instructor or department for information.

HIST 3000W Visions of the Past: Thematic Approaches to Understanding History: The History of War
0 credit(s), max credits 8; prereq Jr or sr or at least 60 cr; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Deutsch, Tracey A
Description: Student may contact the instructor or department for information.

HIST 3010W Historical Research Seminar: Race and Ethnicity in American History
A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq Must have completed one 1xxx or 1 3xxx level introductory survey course. Students may not repeat for credit the same section (or topic).; Meets CLE req of Writing Intensive;
Instructor: Chang, David Anthony
Description: Student may contact the instructor or department for information.

HIST 3010W Historical Research Seminar: Ancient/Modern Views of Emperor Claudius
A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq Must have completed one 1xxx or 1 3xxx level introductory survey course. Students may not repeat for credit the same section (or topic).; Meets CLE req of Writing Intensive;
Instructor: Gallia, Andrew B
Description: Perhaps no Roman emperor has enjoyed a more varied reception than Claudius. Honored as a god in life and death, he was also ridiculed by contemporaries as an inept fool. More recently, his reign has been the focus of numerous "revisionist" treatments in scholarship and popular culture. In this course, we will examine these divergent representations of Claudius in order to get a better understanding of how the unique circumstances and perspectives of various authors shape (and continue to reshape) our understanding of the past.

HIST 3053 Ancient Civilization: Rome
3 credit(s);
Instructor: Evans, John Karl

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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: Karras, Ruth Mazo
Description: Pre-modern Britain contributed much to the English-speaking world: language, law, representative institutions, folktales, family and household structures, and much more. But these cultural developments were not uncontested in their own time. The "Britain" of later centuries, whose empire made such an impact on the entire world out of a complex mixture of cultures: Celtic, Roman, Christian, Anglo-Saxon, Viking, Norman. In tracing the British Isles from prehistoric times until the mid-seventeenth century, this class focuses on cultural interactions and the development of complex identities. Topics include the Roman, Anglo-Saxon, and Norman conquests of England and the English conquests of Wales and Ireland; forms of Christianity (both official and popular) as it varied across Britain and Ireland, and over time with the initial conversion, relation between church and society in the Middle Ages, and the relation between politics and belief in the Protestant Reformation; forms of governance from the level of the village to that of the kingdom; social structures, rural life, and urbanization; family and gender relations; daily life; high and low culture; beginnings of overseas expansion. Textbook, primary source readings, 2 exams, 2 papers with required drafts.

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 transformations in the cultural meanings, politics, and social organization of diverse sexualities in U.S. history. The course will focus on historical contestation over the meanings of sexual ?normality? and ?deviance? from the time of European contact to the present. Through class discussion, engagement with recent scholarship in the field, and critical analysis of historical sources and popular culture, students are encouraged to think about the ways in which ®modern® sexual identities and communities (including gay, lesbian, bisexual, and transgender) are historically contingent and inextricably linked to major shifts in the economy, culture, and politics of the United States. Major topics include clashes over 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. Freshman and sophomores wishing to enroll in course should contact instructor for approval.

HIST 3348 Women in Modern America 3-4 credit(s); Credit will not be granted if credit has been received for: GWSS 3408; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core; Instructor: Deutsch, Tracey A
Description: This course explores significant shifts and compelling moments in the history of women in the United States from 1890 to the present. Topics include women's paid and unpaid labor, consumer culture, women and militarization, and second and wave feminism. Throughout we will pay special attention to the ways in which women's history shaped United States history and to the significance of race and class in women's lives.
Style: 80% Lecture, 20% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 5% quizzes, 15% class participation.
Exam Format: short answer and essay

HIST 3402W Modern Latin America 1825 to Present 4 credit(s); Credit will not be granted if credit has been received for: LAS 3402W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive; Instructor: STAFF
Description: This course surveys developments in Latin America from the Enlightenment and Age of Independence to the rise of bureaucratic authoritarianism (ca. 1750-present). The course will focus on the rise of the nation-state, art, culture, and diplomatic relations within Hispanic America. Themes will include race, class, gender, sexuality, and space.
Style: Monday classes may not meet for the full period every week.
Grading: 20% final exam, 50% reports/papers, 10% class participation, 20% other evaluation. Informal writing assignments.
Exam Format: essay

HIST 3432 Modern Africa in a Changing World 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 Perspective Theme; Instructor: Pohlandt-McCormick, Helena
Description: This course provides a general survey of and introduction to modern African history from the early nineteenth century to the present. After an overview of social, material and cultural developments in Africa before 1800, and a discussion of the effects and repercussions of slavery and the slave trade on the development of African history, this course will turn to the commercial and religious revolutions of 19th century West Africa and the struggles over land and labor in southern Africa. The course examines the reasons for European expansion into Africa, African reactions, and the factors that made conquest possible. The ways in which different colonial powers sought to control the continent are reflected in the different forms conquest took (settler colonies v. plantation colonies). The social, cultural and economic implications of colonial rule are explored through primary documents, fiction and secondary historical accounts. Another major portion of the course focuses on the emergence of resistance and the struggle for liberation from the colonial powers after World War II. Finally, the course examines the problems of independent African nations as they grapple with new forms of dependency, political instability and indebtedness to the world economy; and explores the possibilities for and problems facing a non-racial democratic order in the new South Africa. This is an undergraduate survey course.

HIST 3462 From Subjects to Citizens: The History of East Asia From 1500 to the Present 3-4 credit(s); max credit 4; 1 completion allowed; Credit will not be granted if credit has been received for: EAS 3462;
HIST 3466 History of Women and family in China, 1600-2000
3 credit(s);
Instructor: Wang; Liping
Description: Student may contact the instructor or department for information.

HIST 3479 History of Chinese Cities and Urban Life
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
Credit will not be granted if credit has been received for:
HIST 5479;
Instructor: Wang; Liping
Description: Student may contact the instructor or department for information.

HIST 3487 The Vietnam Wars: French Colonialism and U.S. Intervention in Indochina
3 credit(s);
Instructor: Lee; Mai Na M.
Description: Student may contact the instructor or department for information.

HIST 3489 20th Century India
A-F only, 3 credit(s);
Instructor: Rook; Koepel; Emily Esther
Description: The 20th century in India encompassed a wide range of political, social, and economic systems. This course will take a thematic approach to consider how India moved from a part of the British empire to an independent country to a country most observers consider to be vital to the next century. Specifically this course will consider important subjects like nationalism and colonialism, gender and sexuality, caste and class, and religious conflicts to understand India's complex imagination of itself. The course will be largely based on primary source reading and analysis, as well as work with some key scholarly documents.

HIST 3493 Islam: Religion and Culture
3 credit(s); prereq Soph or jr or sr; Credit will not be granted if credit has been received for: ARAB 3036; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Matar; Nabih I
Description: The purpose of this course is to introduce the theology and civilization of Islam in its Arabic legacy. In the centuries of its growth and development, Islam incorporated numerous cultures, languages, and ethnicities, at the same time that it inspired different literatures, artistic expressions, and religious positions. In focusing on the Arabic legacy, the course will address the formative beginnings of the Islamic Empires in their Umayyad (both Eastern and Western/Andalusian) as well as Abbasid histories. There is no serious understanding of Islam without a serious understanding of its formative text and traditions. And so a good amount of time will be spent reading the Qur'an and selections from the Hadith and the Sira. We then shall shift gear from theology to culture and history, examining other primary sources that represent the vast compendium of literature, art, and imagination of the Arabic tradition. Texts such as the Thousand and One Nights (the earliest manuscript), Ibn Fadlan's journey into Eastern Europe (on which Eaters of the Dead/The Thirteenth Warrior were based), an Arabic view of the Crusades, along with a major history textbook, will be used. I will ask you to view two films on your own. In all our study of the material, we shall see if there are links to modern times, and how millennium-old events and texts may help us understand the complexity of today's changes.

HIST 3507 History of Modern Egypt
A-F only, 3 credit(s);
Instructor: Hakim; Carol
Description: Student may contact the instructor or department for information.

HIST 3546 Islam and the West
3 credit(s); Credit will not be granted if credit has been received for: CAS 3533;
Instructor: Bashiri; Iraj
Description: Intellectual trends defining fundamental differences between Islam and the West arise from their respective historical, philosophical, and intellectual mindsets. The course examines contributing factors to tension, anxiety, and hatred between Muslims and the West, as well as aspects of Islamic and European cultures that inspire respect and emulation.

Objectives: - Acquaint the students with the fundamental differences between Islam and Western culture. - Equip students with the means for a better understanding of international events.

- Teach students to distinguish different trends and accept them for what they are. - Discuss factors that create tension, anxiety and hatred among peoples and nations. - Examine aspects of Islamic and European cultures that inspire respect and emulation.

Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.

Grading: 37% reports/papers, 20% special projects, 40% quizzes, 3% attendance.

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: For anyone who has traveled to Western Europe, cities with a medieval past are everywhere. 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 all with an interest in cities. Lectures, films, analysis of documents, and student activities frame this course. This course has undergone a Course Transformation Project which will result in student design of a medieval city, evaluation of regional distribution of towns, and presentation of medieval scenarios in class, with class participation via clickers.

Style: 70% Lecture, 30% Discussion.

Grading: 25% mid exam, 35% final exam, 30% reports/papers, 10% class participation.

Exam Format: Essay

HIST 3619 Chivalry, Crisis, and Revival: Medieval History 1050-1500
3 credit(s);

Instructor: Phillips Jr,William D

Description: A survey of European history in the later medieval period. Topics include: chivalry and courtly love, crusades, revival of towns and trade, monarchies, religious developments, Black Death, famine, and wars.

Style: 50% Lecture, 40% Discussion.

Grading: 30% mid exam, 40% final exam, 20% reports/papers, 10% class participation.

Exam Format: essay and identifications

HIST 3652 Early Modern Britain
3 credit(s);

Instructor: Watkins,John

Description: HIST 3652 Early Modern Britain On November 17, 1677 the good people of London assembled for the annual celebration of Queen Elizabeth's Accession Day. The highlight of the festivities was a giant papier-mache statue of the Pope, ?his belly filled with live cats.? After long speeches recalling how Elizabeth saved the country from the Pope and the King of Spain, the organizers set the statue on fire. While the burning cats ?squalled most hideously,? the crowd jeered that it was the language of the pope and the devil in dialogue.? The violence of Tudor-Stuart Britain haunts us even to this day. Each year brings us a new movie, television series, or popular novel recasting the Henry VIII?beheaded wives; Sir Thomas More; Mary, Queen of Scots; the 300 Protestant martyrs burned by Mary I; the priests hung, drawn, and quartered by the Elizabethan state; and even a king himself, Charles I, beheaded for his alleged crimes against the English people. These high-profile executions were only the tip of an iceberg. Violence was also an everyday fact of town and village life. Convicted criminals faced mutilation and even hanging for what we would now consider petty crimes. Preachers counseled husbands to whip and beat their wives into godly obedience. Every so often, a woman was burned for conspiring with evil spirits. Each day, villagers encountered maimed soldiers returning from Henry VIII?s wars against France, Elizabeth?s against Spain, or from the civil wars that turned brother against brother during mid-seventeenth century. This course examines the social and political forces that shaped the violent contours of sixteenth- and seventeenth-century Britain. While much of our focus will be on the high political dramas of the Reformation, the ?Monarchical Republic? of Elizabeth I, and the Civil War, we are also going to investigate the developments that had at least an equal impact on the lives of British men and women: new educational practices, the proliferation of print, new ways of organizing rural labor, the ?scientific revolution,? the emergence of a vigorous trans-Atlantic trade, and the development of a plantation system in Ireland that would become a model for British colonization throughout the globe. There will be a mid-term, a final, an analytical book review, and a critical analysis of a major primary source.

Style: 80% Lecture, 20% Small Group Activities.

Grading: 20% mid exam, 40% final exam, 30% reports/papers, 10% class participation. Class participation includes attendance, discussion groups, and informal presentations. 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 3705 From Printing Press to Internet: Media, Communications, and History
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: HIST 3705; 3705W

Instructor: Wolfe,Thomas C

Description: This course is an examination of the emergence of...
modern communications systems used today in everyday life. It takes up themes and concepts that have been crucial in modern history, including the public sphere, print culture, the invention of journalism, and rational-critical discourse, and asks students to apply them to current issues and debates around contemporary media, including TV, radio, and the internet. Readings will range from Enlightenment classics—works by Kant, Condorcet, and Hume—to Wired Magazine.

Style: 25% Lecture, 75% Discussion.

Grading: 50% reports/papers, 25% in-class presentation, 25% class participation.

HIST 3708 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.

HIST 3722 Studies in 20th-Century Europe From the End of World War II to the End of the Cold War: 1945-91
3 credit(s); Credit will not be granted if credit has been received for: GLOS 3422; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
Instructor: Windel, Aaron Matthew
Description: Student may contact the instructor or department for information.

HIST 3724 Women, Revolution, and War in 20th Century Europe
3 credit(s);
Instructor: Lorcin, Patricia M E
Description: What happens to women in times of revolution and war? How is war gendered? This course will seek to answer these questions by examining the involvement and reactions of European women to 20th century wars and revolutions. The conflicts covered will be the two World Wars, the Russian Revolution, the Spanish Civil War, the Algerian War of Independence and the wars following the break-up of Yugoslavia. An introductory lecture will precede each week's theme, but the emphasis of the course will be on reading and class interaction. Through primary and secondary source readings, class presentations and, above all, class discussions, we will look at the ways in which women contributed, resisted or merely submitted to twentieth century conflicts and assess the short and long-terms impact of these conflicts on their lives. Gender and gendering in situations of conflict will be constant themes throughout the course. The Assignments will include three 6-8 page papers, one of which will be a re-write, and a class presentation, as part of a group the size of which will depend on class size.

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: Snyder, Edward N
Description: History 3729 examines the Nazi dictatorship in all its complex dimensions, from the early life of Adolf Hitler to total war and genocide. Students explore how the Nazi movement arose in the context of modern German and European history, and how the Nazis were able to win the support of significant segments of the German population. We study the Nazis' massive project of social and biological engineering—pronalatism, forced sterilization, extermination of "social and biological deviants," and, ultimately, the genocide of the Jews. Through memoirs, state documents, and historical accounts, the class examines life from the vantage point of perpetrators, accommodators, victims, and resisters. While learning about the many facets of the history of the Third Reich, students also develop an understanding of how historians interpret the evidence that they gather and reconstruct the past.

Style: Class is run in an active lecture format, meaning that lectures are interspersed with discussions and debates
Grading: 20% mid exam, 30% final exam, 35% reports/papers, 5% class participation, 10% other evaluation. Film review

HIST 3731 Citizens and the State in Modern France From the Revolution of 1789 to Post-de Gaulle:
1789-1991
3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core;
Instructor: Trutor, Jonathan William
Description: Student may contact the instructor or department for information.

HIST 3767 Eastern Orthodoxy: History and Culture
3 credit(s);
Instructor: Stavrou, Theofanis G
Description: Student may contact the instructor or department for information.

HIST 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 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 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
HIST 3835 Law in American Life: 1865 to Present

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 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010

Instructor: Green, George David
Description: Covers topics on American economic development since 1870s: farm problems in the 19th century, rise of big business and finance capitalism, the 1920s economy and the causes of the great depression, postwar capitalism and government policies for stability and growth. Students read diverse articles and write a paper on each topic before discussion begins. There are no exams. The course is open to all undergraduates, but is most often taken by History and other social science majors.
Style: 20% Lecture, 80% Discussion.
Grading: 80% reports/papers, 20% class participation.

HIST 3865 African American History, 1865 to Present

Instructor: Mayes, Keith A
Description: This course explores the period between Reconstruction and the meaning of black freedom after the Civil War to contemporary issues such as reparations and racial profiling. Afro 3865 begins by examining how the Civil War culminated in the liberation of four million slaves and the attempt by constitutional amendments to right the wrongs of the previous period of enslavement. Though constitutionally free, Reconstruction ended in failure, stripping African-Americans of their newfound citizenship and ushering in the period of Jim Crow segregation. The course will detail black life under Jim Crow, but highlight African-American agency in the the realm of politics, labor, sports, music, and intellectual life. The course turns a crucial corner during the New Deal period and discusses how the 1930s and early 1940s set the stage for the modern civil rights struggle. With the Supreme Court's decree directly challenging Jim Crow in 1954, African-Americans entered a new phase in their history where protesting for black rights became a defining feature in American culture during the 1960s and 1970s. New leaders and organizations emerged along with novel cultural forms and expressions. The course ends in the contemporary period. What are we to make of the modern day black struggle around race, class, and gender? How are we to interpret the demand for reparations in the age of dismantling affirmative action? What about heightened incidences of police brutality? How do they all connect to the past?
Grading: 20% Lecture, 80% Discussion.

HIST 3871 American Indian History: Pre-Contact to 1830

Instructor: Mayes, Keith A
Description: This course explores the period between Reconstruction and the meaning of black freedom after the Civil War to contemporary issues such as reparations and racial profiling. Afro 3865 begins by examining how the Civil War culminated in the liberation of four million slaves and the attempt by constitutional amendments to right the wrongs of the previous period of enslavement. Though constitutionally free, Reconstruction ended in failure, stripping African-Americans of their newfound citizenship and ushering in the period of Jim Crow segregation. The course will detail black life under Jim Crow, but highlight African-American agency in the the realm of politics, labor, sports, music, and intellectual life. The course turns a crucial corner during the New Deal period and discusses how the 1930s and early 1940s set the stage for the modern civil rights struggle. With the Supreme Court's decree directly challenging Jim Crow in 1954, African-Americans entered a new phase in their history where protesting for black rights became a defining feature in American culture during the 1960s and 1970s. New leaders and organizations emerged along with novel cultural forms and expressions. The course ends in the contemporary period. What are we to make of the modern day black struggle around race, class, and gender? How are we to interpret the demand for reparations in the age of dismantling affirmative action? What about heightened incidences of police brutality? How do they all connect to the past?
Grading: 20% Lecture, 80% Discussion.

HIST 3875 Comparative Race and Ethnicity in US History

Instructor: Thompson, Wendy Mate
Description: Student may contact the instructor or department for information.
Grading: 20% Lecture, 80% Discussion.

HIST 3877 Asian American History, 1850-Present

Instructor: Lee, Erika
Description: This course explores the period between Reconstruction and the meaning of black freedom after the Civil War to contemporary issues such as reparations and racial profiling. Afro 3865 begins by examining how the Civil War culminated in the liberation of four million slaves and the attempt by constitutional amendments to right the wrongs of the previous period of enslavement. Though constitutionally free, Reconstruction ended in failure, stripping African-Americans of their newfound citizenship and ushering in the period of Jim Crow segregation. The course will detail black life under Jim Crow, but highlight African-American agency in the the realm of politics, labor, sports, music, and intellectual life. The course turns a crucial corner during the New Deal period and discusses how the 1930s and early 1940s set the stage for the modern civil rights struggle. With the Supreme Court's decree directly challenging Jim Crow in 1954, African-Americans entered a new phase in their history where protesting for black rights became a defining feature in American culture during the 1960s and 1970s. New leaders and organizations emerged along with novel cultural forms and expressions. The course ends in the contemporary period. What are we to make of the modern day black struggle around race, class, and gender? How are we to interpret the demand for reparations in the age of dismantling affirmative action? What about heightened incidences of police brutality? How do they all connect to the past?
Grading: 20% Lecture, 80% Discussion.
**HIST 3959 How to Do History**  
A-F only, 3 credit(s); prereq History major or dept consent  
**Instructor:** Phillips, Carla Rahn  
**Description:** Everything that happened in the past led to where we are today, but how do we go about understanding that past human experience? This course aims to prepare you to be a good consumer and producer of history, whether you are writing a senior paper in the History Department or simply learning what history is about, so you can better understand the complex world we live in. You will be introduced to the ways that historians investigate, interpret, and write about the past, as well as learning how to think critically about sources of historical information. You will read, discuss, and write about various historical sources and learn how to evaluate them. You will also be introduced to the rich collections of historical sources at the University of Minnesota and in the Twin Cities.

**HIST 3959H Honors: How to Do History**  
A-F only, 3 credit(s); prereq History major or dept consent  
**Instructor:** Phillips, Carla Rahn  
**Description:** Similar to the description above, this course is for honors students.

**HIST 3960 Topics in History**  
**Asia-Pacific War of the 1930s and 1940s**  
3 credit(s), max credits 16, 5 completions allowed; prereq Jr or sr or instr consent  
**Instructor:** Tucker, David Vance  
**Description:** War in Asia in the 1930s and 1940s was a major cause of the end of the Japanese, British, French and Dutch colonial empires, a communist state in China, the division of Korea, and a great expansion of American power in the Pacific. Names for that war, or parts of it, indicate how extensive and complicated it was. For some, it is the Pacific War, or WWII, for others it begins as the Sino-Japanese War in 1937, and for still others it’s the Fifteen Years War, that begins with the Japanese takeover of Manchuria in 1931. We will examine the war in Asia and the Pacific from the beginning of the 1930s to its aftermath following the Japanese surrender. We will use a variety of written and graphic materials, including films, to look at some of its military, political, economic, social and cultural consequences. Our object is to understand how the war came about and developed as it did, and what those consequences have been.

**HIST 3960 Topics in History**  
**3 credit(s), max credits 16, 5 completions allowed; prereq Jr or sr or instr consent**  
**Instructor:** Painter, PhD, Karen  
**Description:** From the philosopher Friedrich Nietzsche to Hitler, music had a profound influence on German politics and society. This course examines seminal musical works from the 19th and 20th centuries in the context of literary texts (Oscar Wilde, Thomas Mann, and Bertolt Brecht), ideologies (nationalism, anti-Semitism, socialism, and fascism), and political contexts (the 1848 revolutions, World War I, World War II, and the Holocaust). The repertoire studied includes symphonies by Beethoven, Bruckner, and Mahler, as well as dramatic and theatrical works by Wagner, Richard Strauss, Alban Berg, Kurt Weill, and Carl Orff. Why was Hitler obsessed with Wagner? How did music serve to torture and console in the Nazi death camps? How did music function as propaganda, and how does this affect the interpretation of this music today? No musical background necessary.

**HIST 4961V Honors: Major Paper**  
**A-F only, 4 credit(s); prereq dept consent**  
**Instructor:** Menard, Russell R  
**Description:** Honors: Major Paper  
**Exam Format:** take-home essay  
**Essay Structure:** A-F only, 4 credit(s); prereq dept consent; must take a 3-cr 3xxx or 5xxx course taken concurrently; Meets CLE req of Writing Intensive;  
**Description:** With the permission of the instructor of a history course, a student may add this one-credit independent study in order to make the course writing intensive. The student would then be expected to do additional written work, including the revision of at least one paper.

**HIST 4961V Honors: Major Paper**  
**A-F only, 4 credit(s); prereq dept consent**  
**Instructor:** Hoogland, Tim  
**Description:** Honors: Major Paper  
**Exam Format:** take-home essay  
**Essay Structure:** A-F only, 4 credit(s); prereq dept consent; must take a 3-cr 3xxx or 5xxx course taken concurrently; Meets CLE req of Writing Intensive;  
**Description:** With the permission of the instructor of a history course, a student may add this one-credit independent study in order to make the course writing intensive. The student would then be expected to do additional written work, including the revision of at least one paper.

**HIST 4961V Honors: Major Paper**  
**A-F only, 4 credit(s); prereq dept consent**  
**Instructor:** STAFF  
**Description:** Honors: Major Paper  
**Exam Format:** take-home essay  
**Essay Structure:** A-F only, 4 credit(s); prereq dept consent; must take a 3-cr 3xxx or 5xxx course taken concurrently; Meets CLE req of Writing Intensive;  
**Description:** With the permission of the instructor of a history course, a student may add this one-credit independent study in order to make the course writing intensive. The student would then be expected to do additional written work, including the revision of at least one paper.
**HIST 4961V Honors: Major Paper**
A-F only, 4 credit(s); prereq dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive; Instructor: Hakim, Carol
Description: Student may contact the instructor or department for information.

**HIST 4961W Major Paper**
A-F only, 4 credit(s); prereq dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive; Instructor: Mathieu, Saje M
Description: Student may contact the instructor or department for information.

**HIST 4961W Major Paper**
A-F only, 4 credit(s); prereq dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive; Instructor: Lorcín, Patricia M E
Description: Student may contact the instructor or department for information.

**HIST 4961W Major Paper**
A-F only, 4 credit(s); prereq dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advance; Meets CLE req of Writing Intensive; Instructor: Reyerson, Kathryn L
Description: This course combines an introduction to historical research with the actual research experience of writing the senior paper in history. The first weeks will be devoted to an exploration of the use of documents and the varieties of historical writing. The research paper will focus on a topic of the student's choice and will be based on the investigation of primary sources (printed documents, memoirs, literature, etc.).
Style: 100% Discussion.
Grading: 90% reports/papers, 10% class participation.

**HIST 5525 20th-Century Russia: The Collapse of Imperial Russia, the Revolutions, and the Soviet Regime**
A-F only, 3 credit(s); Instructor: Stavróu, Theofanis G
Description: Student may contact the instructor or department for information.

**HIST 5612 Proseminar in Medieval History**
A-F only, 3 credit(s); prereq [5611, grad student] or instr consent; Instructor: Phillips Jr, William D
Description: Student may contact the instructor or department for information.

**HIST 5614 The Medieval Church**
3 credit(s); prereq Grad student or instr consent; Instructor: Karras, Ruth Mazo
Description: This seminar focuses on relations among Christians, Muslims, and Jews during medieval and early modern times. It was an age of Muslim and Christian expansion, of jihad and crusade, of anti-Jewish violence and persecution. The tendency in our current historical situation is to focus on these more violent dimensions of inter-religious relations and this course will certainly explore them fully. At the same time, though, the class will address the more peaceful forms of interfait contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce, intellectual and cultural exchange, and religious dialog and disparation. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfait relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.
Style: 100% Discussion.
Grading: 50% reports/papers, 50% class participation.

**HIST 5900 Topics in European/Medieval History: Christian-Muslim Relations, Muhammad to Modernity**
A-F only, 3 credit(s), max credits 16, 5 completions allowed; prereq Grad or [advanced undergrad with instr consent ]; Instructor: Casale, Giancarlo
Description: This seminar focuses on relations among Christians, Muslims, and Jews during medieval and early modern times. It was an age of Muslim and Christian expansion, of jihad and crusade, of anti-Jewish violence and persecution. The tendency in our current historical situation is to focus on these more violent dimensions of inter-religious relations and this course will certainly explore them fully. At the same time, though, the class will address the more peaceful forms of interfait contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce, intellectual and cultural exchange, and religious dialog and disparation. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfait relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.
Style: 100% Discussion.
Grading: 50% reports/papers, 50% class participation.

**HIST 5901 Latin America Proseminar: Colonial**
A-F only, 3 credit(s); prereq instr consent; Instructor: Chambers, Sarah C
Description: This pro-seminar for graduate students will focus on the historiography of Colonial Latin America. The class will be entirely discussion of readings, and students will take a turn leading discussion. Possible topics to be covered include:
pre-colonial societies, the conquest, religion, gender, the economy, and independence movements. Students will write 2-3 book reviews and a longer final paper. The grading will be based upon approximately 80% written work and 40% class participation. The course will not be web enhanced, but may have a listserv for discussion.

**HIST 5910 Topics in U.S. History: Comparative Indigeneity**
A-F only, 3 credit(s), max credits 15, 5 completions allowed; prereq Grad or advanced undergrad student with instr consent ;
Instructor: Chang,David Anthony
Description:

**HIST 5920 Topics in African Social History**
A-F only, 3 credit(s), max credits 15, 5 completions allowed; prereq Grad or instr consent ;
Instructor: Pohiardi-McCormick,Helena
Description: Student may contact the instructor or department for information.

**HIST 5950 Topics in Latin American History: 20th Century Mexico**
A-F only, 3 credit(s), max credits 15, 5 completions allowed; prereq Grad or adv undergrad with instr consent ;
Instructor: McNamara,Patrick J
Description: Student may contact the instructor or department for information.

**HIST 5990 Readings in Comparative History: Studies of Migration**
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq instr consent ;
Instructor: Gabaccia,Donna
Description: Student may contact the instructor or department for information.

**HIST 8245 Human Rights and Crimes Against Humanity: A Global History**
A-F only, 3 credit(s);
Instructor: Weitz,Eric D
Description: Student may contact the instructor or department for information.

**HIST 8640 Topics in Legal History Research**
A-F only, 3 credit(s), max credits 9, 3 completions allowed; Instructor: Welke,Barbara Young
Description: In the last two decades, there has been an explosion of historical scholarship on citizenship. Law, Citizenship and State-Building focuses on this scholarship with particular reference to the U. S. from the founding era through the 20th century. Our readings will include theoretical work on law, citizenship and the state and recent monographs, including Mark Graber, Dred Scott and the Problem of Constitutional Evil; Peggy Pascoe, What Comes Naturally: Miscegenation Law and the Making of Race in America; Mae Ngai, Impossible Subjects: The Impact of Immigration Policy on Asian American Identity; and Mark Graber's Dred Scott and the Problem of Constitutional Evil. The class will address the more peaceful forms of interfaith contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce, intellectual and cultural exchange, and religious dialogue and dispute. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfaith relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.

**HIST 8900 Topics in European/Medieval History**
A-F only, 1-4 credit(s), max credits 16, 5 completions allowed;
Instructor: Karras,Ruth Mazo
Description: Student may contact the instructor or department for information.

**HIST 8900 Topics in European/Medieval History:**
Christian-Muslim Relations, Muhammad to Modernity
A-F only, 3 credit(s), max credits 16, 5 completions allowed;
Instructor: Casale,Giancarlo
Description: This seminar focuses on relations among Christians, Muslims, and Jews during the medieval and early modern times. It was an age of Muslim and Christian expansion, of jihad and crusade, of anti-Jewish violence and persecution. The tendency in our current historical situation is to focus on these more violent dimensions of inter-religious relations and this course will certainly explore them fully. At the same time, though, the class will address the more peaceful forms of interfaith contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce, intellectual and cultural exchange, and religious dialogue and dispute. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfaith relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.

**HIST 8910 Topics in U.S. History: Religion and Radicalism in Early America**
A-F only, 3 credit(s), max credits 16, 5 completions allowed;
Instructor: Fischer,Kirsten
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 klfischer@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
HIST 8910 Topics in U.S. History: Public History and Urban Space
A-F only, 3 credit(s), max credits 16, 5 completions allowed;
Instructor: Murphy, Kevin P.
Description: Student may contact the instructor or department for information.

HIST 8920 Topics in African History
A-F only, 1-4 credit(s), max credits 16, 5 completions allowed;
Instructor: Pohlandt-McCormick, Helena
Description: Student may contact the instructor or department for information.

HIST 8950 Topics in Latin American History
A-F only, 1-4 credit(s), max credits 16, 5 completions allowed;
Instructor: Chambers, Sarah C
Description: Student may contact the instructor or department for information.

HIST 8960 Topics in History: The Holocaust in France:
Testimony/Fiction/Theory
A-F only, 3 credit(s), max credits 16, 5 completions allowed;
Instructor: chaouat.bruno
Description: Student may contact the instructor or department for information.

History of Medicine
510 Diehl Hall (Box 506 Mayo)

HMED 3002W Health Care in History II
3 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspect Theme; meets CLE req of Writing Intensive;
Instructor: Gunn, Jennifer
Description: This course is the second semester of a two-semester chronological survey of the social and intellectual history of western medicine. It does not require special technical knowledge of the biomedical sciences, nor is Health Care in History I a prerequisite for enrolling in Health Care in History II. The approach of this course is to look at medicine not as an isolated set of ideas and practices in a linear march of scientific progress, but as an integral part of a culture. We seek to understand how ideas about the cause of disease, treatments, and the organization of care for the sick reflect the particular social historical context. HMED 3002 will focus on the period from the early nineteenth century to the present. We will investigate changing medical and scientific ideas about the body and disease, alternative medical systems, relationships between health care providers and patients, and the social organization of health care delivery from charity hospitals to HMOs and national health services. The course will examine the growth of medicine’s cultural authority along with professionalization, the increased incorporation of science and technology, and changing standards for education and practice. Public health, prevention, and responses to infectious disease also occupy a prominent place in this history. Students will have the opportunity to touch the past directly through the use of rare books and documents in the Wangensteen Historical Medical Library.
Style: 65% Lecture, 35% Discussion.
Grading: 10% mid exam, 15% final exam, 60% reports/papers, 15% class participation.
Exam Format: Essay and short answer

HMED 3040 Human Health, Disease, and the Environment in History
3 credit(s); Meets CLE req of Environment Theme; meets CLE req of Historical Perspective Core;
Instructor: Gunn, Jennifer
Description: Introduction to changing relationship of human health and the environment. Ways in which human-induced environmental changes have altered our experiences with disease and our prospects for health. Four in-class 20-minute essays in lieu of a midterm (no final); research paper (5-7 pages plus two intermediate stages in the project) and group research presentation; book review (3 pages), and library skills “scavenger hunt.” Although the class will have about 45 students, it is conducted as a seminar as much as possible, with class discussions and small group work.

HMED 3065 Body, Soul, and Spirit in Medieval and Renaissance European Medicine
A-F only, 3 credit(s); Meets CLE req of Historical Perspective Core;
Instructor: Shackelford, Jole Richard
Description: The body is a natural topic in today’s society. As a nation and as individuals we are often preoccupied with our...
physical self, our appearance, our health, our pleasures, and our material possessions. Our modern identity crises are moral as well as legal, physical as well as psychological, but are often framed in terms of scientific measures that determine the health and viability of the mind and body. But for the medieval European Christian, the mind and body were necessarily viewed in a spiritual as well as a corporate context - it made no sense whatsoever to think of the health of the body apart from the health of the soul, or the life of the individual body apart from the life of the communal body. During this semester we will examine how medieval and Renaissance European medical writers understood the body, soul, and spirit and how these medical conceptions affected extra-medical concerns. Specific topics to be considered include: The body and soul in medieval theology and cosmology; Religious conceptions of the body and soul; Medical conceptions in the medieval world; Medieval and Renaissance psychology; Medical astrology and its consequences; The medical normal and abnormal body; The medicine of reproduction and sexual identity; Death, burial, dissection, and resurrection in medical and religious perspective; The Macrocosmic body and the microcosmic body; Limits to human power and authority over the individual body; The anatomical and chemical body and spirit.

Instructor: Shackelford, Jole Richard
Prerequisites: Consent of instructor. Restricted to students in the History of Medicine from 1700 to 1900 and prerequisites: HSCI 8113; SSCI 8113; or consent of instructor; 4 credits; credit will not be granted if credit has been received for: HSCI 1715; Meets CLE req of Historical Perspective Core; Meets CLE req of International Perspective Theme; \n
HMED 2112 Life on Earth: Perspectives on Biology
A-F only, 1-6 credits; 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: Jones, Susan D.

Description: This course explores how humans have developed theories and observations over the past 400 years about life on earth. Applying a historical perspective to issues in today's world, we will explore scientific ideas and debates across national boundaries. Specific topics include: origins of life on earth; evolution and natural theology; ecosystems; agricultural and industrial environmental degradation and species regeneration; the Guns, Germs and Steel hypothesis; and disease threats such as avian influenza.

Style: 60% Lecture, 40% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.

Exam Format: Essay

HMED 3832 Directed Study
A-F only, 1-6 credits; credit will not be granted if credit has been received for: HSCI 1714; Meets CLE req of Historical Perspective Core; Instructor: Eyler, John M.

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

History of Science and Technology

HMED 5201 History of Medicine from 1700 to 1900
3 credits; prerequisite: HSCI 5200

Instructor: Gunn, Jennifer

Description: This course is the second semester of a two-semester chronological survey of the social and intellectual history of western medicine. It does not require special technical knowledge of the biomedical sciences, nor is Health Care in History I a prerequisite for enrolling in Health Care in History II. The approach of this course is to look at medicine not as an isolated set of ideas and practices in a linear march of scientific progress, but as an integral part of a culture. We seek to understand how ideas about the cause of disease, treatments, and the organization of care for the sick reflect the particular social historical context. HMED 3002 will focus on the period from the early nineteenth century to the present. We will investigate changing medical and scientific ideas about the body and disease, alternative medical systems, relationships between health care providers and patients, and the social organization of health care delivery from charity hospitals to HMOs and national health services. The course will examine the growth of medicine's cultural authority along with professionalism, the increased incorporation of science and technology, and changing standards for education and practice. Public health, prevention, and responses to infectious disease also occupy a prominent place in this history. Students will have the opportunity to touch the past directly through the use of rare books and documents in the Wangensteen Historical Medical Library.

Style: 65% Lecture, 35% Discussion.

HMED 8113 Research Methods in the History of Science, Technology, and Medicine
A-F only, 3 credits; prerequisite: HSCI 8113; Instructor: Kohlstedt, Sally Gregory

Description: This class is intended to introduce key aspects of historical research to graduate students in history and related fields. Students will discuss sources, methods, and problems of research in the history of science, technology, and medicine. Each student will generate a major research paper in an area of special interest, engage in peer review, and do a public oral presentation.

HMED 8220 Seminar: Current Topics in the History of Medicine
A-F only, 3 credits, max credits 9, 3 completions allowed; prerequisite: consent of instructor; Instructor: Shackelford, Jole Richard

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

HSCI 1714 Technology and Civilization: Stone Tools to Steam Engines
4 credits; 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 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. 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: 60% Lecture, 25% Film/Video, 15% Discussion.
Grading: 15% mid exam, 20% final exam, 20% reports/papers, 10% quizzes, 15% additional semester exams, 5% attendance, 15% class participation.

Exam Format: Essay

HSCI 1715 Technology and Civilization: Waterwheels to the Web
4 credits; Meets CLE req of Historical Perspective Core; Meets CLE req of International Perspective Theme; Instructor: Misa, Thomas J.

Description: HSCI 1715 is designed for undergraduates interested in technology and history, and enrolls students with wide interests in the liberal arts, science, and engineering. There is no prerequisite. We explore the historical background and development of the most powerful technological system the world has ever known: Western Europe's. We cover relations between technology and culture since the Industrial Revolution, the diffusion of industrial technologies around the world and how various cultures adapted/adapted them, and technology's social impact, especially on Western society. We begin with case studies of industrialization in Britain, Germany, and the United States.
States, and the connection between industrialization and exploration and discovery. We next focus on how different societies created and reacted to technologies such as the steam engine and electricity, and how the small technologies of daily life contributed to the growth of a society increasingly dependent on technology. Finally, we look at the increasingly complex technological system that nations and corporations developed to manage people and machines, and how these technologies related to social, cultural, and scientific attitudes. We end by considering the technologies of violence and hope that have dominated much of the twentieth-century.

**Style:** 65% Lecture, 35% Discussion.

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

**Exam Format:** Short identifications and essay

**HSCI 1814 Revolutions in Science: The Babylonians to Newton**

**Course:** 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 Perspectives Theme;

**Instructor:** Shackelford, Jole Richard

**Description:** HSCI 1814 Introduction to History of Science: Ancient Science to the Scientific Revolution Instructor: Jole Shackelford This first semester of a two-semester undergraduate survey of the history of Western science is devoted to the development of science from antiquity through the Scientific Revolution. Beginning with early formulations of theory about the nature of the cosmos and its inhabitants, the origins of astronomy, physics, biology, and other sciences are placed in cultural context, especially in relation to natural philosophy, religion, and social structures. The first part of the course introduces Babylonian, Egyptian, and Greek foundations of the Western scientific tradition. The second part examines the reformulation of ancient ideas in Medieval and Renaissance Europe and their transformation in the Scientific Revolution of the 16th and 17th centuries. The culmination of the semester will entail consideration of how science was organized and put to use in the early European nation state. Class time: 75% lecture, 25% discussion Work load: 75 pages of reading per week (on the average), 10 pages of writing per semester (2 take home essays), 2 in-class examinations, Grade: 20% mid-semester exams, 40% final exam(s), 30% take-home essays (2), 10% class participation. Exam format: Essay, short prose answer.

**HSCI 3815 Revolutions in Science: Lavoisier, Darwin, and Einstein**

**Course:** 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 Perspectives Theme;

**Instructor:** Alchin, Douglas

**Description:** We use case studies to explore the origins of science as practiced and understood in our culture today. We discuss the historical roots of methods, ideas and institutions; how science has been shaped by cultural contexts and individuals; and how the public role of science developed. We aim to develop critical thinking skills, not merely knowledge of content. We focus especially on understanding science, the nature of science and its cultural role, as well as developing historical perspective. Several historical simulations foster appreciation of historical context.

**Style:** 30% Lecture, 40% Discussion. interactive lecture/discussion

**Grading:** see website for options
Theme;
Instructor: Thomas, Mary Margaret

Description: Technology is an enormous force in our society, and this course explores 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 know your fellow students and find out what their interests are, and you will discuss historical problems with them. 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: 60% Lecture, 25% Film/Video, 15% Discussion.

Grading: 15% mid exam, 20% final exam, 20% reports/papers, 10% quizzes, 15% additional semester exams, 5% attendance, 15% class participation.

HSCI 3715 Technology and Civilization: Waterwheels to the Web
4 credit(s); Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
Instructor: Misra, Thomas J

Description: HSCI 1715 is designed for undergraduates interested in technology and history, and enrolls students with wide interests in the liberal arts, science, and engineering. There is no prerequisite. We explore the historical background and development of the most powerful technological system the world has ever known: Western Europe’s. We cover relations between technology and culture since the Industrial Revolution, the diffusion of industrial technologies around the world and how various cultures adopted/adapted them, and technology’s social impact, especially on Western society. We begin with case studies of industrialization in Britain, Germany, and the United States, and the connection between industrialization and exploration and discovery. We next focus on how different societies created/reacted to technologies such as the steam engine and electricity, and how the small technologies of daily life contributed to the growth of a society increasingly dependent on technology. Finally, we look at the increasingly complex technological system that nations and corporations developed to manage people and machines, and how these technologies related to social, cultural, and scientific attitudes. We end by considering the technologies of violence and hope that have dominated much of the twentieth-century.

Style: 65% Lecture, 35% Discussion.

Exam Format: Short identifications and essay

HSCI 3814 Revolutions in Science: The Babylonians to Newton
4 credit(s); Credit will not be granted if credit has been received for: HSCI 1814; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme;
Instructor: Shackelford, Jole Richard

Description: HSCI 3814 Introduction to History of Science: Ancient Science to the Scientific Revolution Instructor: Jole Shackelford This first semester of a two-semester undergraduate survey of the history of Western science is devoted to the development of science from antiquity through the Scientific Revolution. Beginning with early formulations of theory about the nature of the cosmos and its inhabitants, the origins of astronomy, physics, biology, and other sciences are placed in cultural context, especially in relation to natural philosophy, religion, and social structures. The first part of the course introduces Babylonian, Egyptian, and Greek foundations of the Western scientific tradition. The second part examines the development 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.

Exam Format: Take-home essay

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.

Exam Format: Take-home essay
University of Minnesota - Course Guide for Twin Cities Campus  Spring 2010

weapons, smart weapons, and defensive technology.
Style: 50% Lecture, 33% Discussion.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation.
Exam Format: Essay

HSCI 5242 The Darwinian Revolution
3 credit(s); Credit will not be granted if credit has been received for: HSCI 3242;
Instructor: Borrello, Mark E
Description: Student may contact the instructor or department for information.

HSCI 5332 Science and American Culture
3 credit(s); Credit will not be granted if credit has been received for: HSCI 3332; Meets CLE req of Cultural Diversity Theme;
Instructor: Seidel PhD, Robert W
Description: The origins and development of American science will be analyzed in terms of the opportunities and challenges provided by exploration, economic development, war and peace. Specifically, we will examine the colonial roots, early national development, the impact upon science of the Civil War, World War I and II, and the rise to pre-eminence of American Science in the 20th Century.
Style: 66% Lecture, 33% Discussion.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation.
Exam Format: Essay

HSCI 5401 Ethics in Science and Technology
3 credit(s); Credit will not be granted if credit has been received for: HSCI 3401; Meets CLE req of Citizenship/Publ Ethics Theme;
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: 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: Kohstedt, Sally Gregory
Description: This class is intended to introduce key aspects of historical research to graduate students in history and related fields. Students will discuss sources, methods, and problems of research in the history of science, technology, and medicine. Each student will prepare a major research paper in an area of special interest, engage in peer review, and do a public oral presentation.

HMNG 1012 Beginning Hmong
5 credit(s); prereq 1011; Credit will not be granted if credit has been received for: HMNG 4002;
Instructor: Yang, Kix
Description: Student may contact the instructor or department for information.

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 Ntaaw Hmong Dawb. You can find Basic Hmong Book One at the Bookstores on Campus and Phau Xyaum Nyeem Ntaaw 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’ abilities to communicate and negotiate meanings in basic Hmong at the inter-personal level in the classroom, at home, and/or out in the community; and, 3) to increase students’ vocabulary through select topics. Functions of self, family, workplace and community will be continued on from Hmong 1015 as well as topics focused on culture. 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 Hmong 1011 and Hmong 1012 or equivalent. 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 strength/enable 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.

HMNG 4006 Accelerated Intermediate Hmong
3 credit(s); prereq 4005, ability in basic spoken Hmong, grad student; Credit will not be granted if credit has been received for: HMNG 1016;
Instructor: Vang,Bee
Description: This course is designed for students who have already been exposed to the Hmong alphabets and have the basic skills in reading, writing, and listening. The pace for this course is very fast. One semester of this course is equivalent to two semesters of Intermediate Hmong. It is expected that the students understand all materials before coming to class to fully participate in the session. The main objectives of this course are to 1) reinforce basic reading, writing, listening, and speaking skills using the Hmong Romanized Phonetic Alphabet (RPA); 2) strengthen the students’ abilities to communicate and negotiate meanings in basic White Hmong at the inter-personal level in the classroom, at home, and/or out in the community; and, 3) to increase students’ vocabulary through selected topics. Functions of self, family, workplace and community will be continued on from Hmong 1015 as well as topics focused on culture. The course will be taught utilizing lectures, reading and writing practice.
projects, basic dialogues, group discussions, and class exercises.

**Style:** 20% 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 4008 Advanced Hmong**
3 credit(s); prereq 3031 or 4007 or equiv or instr consent; Credit will not be granted if credit has been received for: HMNG 3032;

**Instructor:** LeYang,Maxwell

**Description:** This course will assist students in improving their ability to speak, listen, read, and write Hmong in a more sophisticated level. The course will expose students to more complex vocabularies and sentence structures from Hmong newspapers, magazine articles, folktales, folksongs, novels, poetry, proverbs, and riddles. It will orientate students on concepts and terminologies from social and ritual settings to help authenticate the students? Hmong language usage. Students will survey Hmong idioms and slangs to help with their comprehension of the language. An in depth emphasis on Hmong classifiers will be covered to enhance students? conjugation of Hmong vocabularies. By the end of the sequence, students are expected to be able to conduct and sustain fairly complex Hmong conversations, be able to read and understand news and research articles in Hmong, and be able to write compositions and reports with in-depth communication skill.

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

**Grading:** 25% mid exam, 25% final exam, 10% quizzes, 10% written homework, 10% attendance, 10% in-class presentation, 10% class participation.

**Honors Seminar 20 Nicholson Hall**

**HSEM 2008H Honors Seminar: Learning Anthropology through Science Fiction**
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq [Fr or soph], honors;

**Instructor:** Tostevin,Gilbert B

**Description:** Science Fiction has been one of the most popular genres of literature over the last century and a half. Despite its great popularity, however, many fans of the genre do not realize how much it has in common with the discipline of Anthropology. Anthropology is the study of what it means to be human in all times and places. Science fiction, for its part, explores human existence in equally diverse contexts, except that those imagined contexts frequently have not yet happened. Despite this similarity, anthropology is extremely poorly known compared to science fiction. This seminar uses the stimulating and entertaining literature of science fiction to expose students to anthropology who otherwise might leave university without experiencing the power of the discipline's perspective on humanity. Through individual pairings of anthropology texts and science fiction stories, the course explores the relevance of biological anthropology, social anthropology, linguistic anthropology, and archaeology to humanity's future. The course's juxtaposition of anthropological literature to science fiction stories is designed to provide students with the ability to see how our future is more dependent on how humanity works (as anthropology understands it), than merely what the next technological invention has to offer us. Associate Professor Gilbert Tostevin of the Department of Anthropology and paleoanthropologist who has taught at the University of Minnesota since 2001. His research uses the material culture remains of past human behavior to understand the evolution of humanity during the period when anatomically modern humans replaced archaic Homo species, such as the Neanderthals, 40,000 years ago. His research includes stone tool analysis and the excavation of Paleolithic sites in Central Europe, the Near East, and Central Asia. His interests in material culture range from the earliest cutting edges to the Turing machines at the heart of modern computers. This wide angle approach to human behavior naturally draws him to the comparison of what both anthropology and science fiction tell us of humanity's future.

**Style:** 20% Lecture, 60% Discussion, 15% Small Group Activities, 5% Guest Speakers.

**Grading:** 20% mid exam, 25% final exam, 25% reports/papers, 30% class participation.

**HSEM 2530H Honors Seminar: Einstein: Master of theUniverse**
A-F only, 3 credit(s), max credits 6; prereq [Fr or soph] honors student;

**Instructor:** Janssen,Michel

**Description:** In this seminar we examine the work and life of Albert Einstein (1879?1955). The use of mathematics will be kept to a minimum. You will need no more than some basic high-school algebra and geometry. We begin by studying the special theory of relativity (1905) and some of its famous predictions such as time dilation, the twin paradox, and E=mc2. While working our way through this material, we will also look at elements of 19th-century physics that played a role in the development of special relativity. We continue to pursue a historical approach when we turn to the general theory of relativity (1915), the theory that makes gravity part of (curved) space-time. We trace the development of this theory from 1907 till about 1920. Einstein worked intensively on this theory living in Berlin during the first World War (1914?1918). For this period, we shall also take a close look at Einstein’s personal life and at his tentative first appearances on the political stage. Finally, we cover Einstein’s role in the development of quantum physics, both his early pioneering efforts in this field and his later opposition to quantum mechanics as formulated in the mid-20s. By the end of the course you should have a good understanding of some of Einstein’s most revolutionary ideas, of how he arrived at them, at what personal price, and in what broader socio-political and cultural context. Michel Janssen (PhD, History and Philosophy of Science, University of Pittsburgh, 1995) is a historian of science specializing in the relativity and quantum revolution in physics in the early decades of the 20th century. Before coming to the University of Minnesota in 2000, he was an editor at the Einstein Papers Project, responsible for the presentation of papers, letters, lecture notes, and research manuscripts dealing with general relativity in The Collected Papers of Albert Einstein. He has published widely on the history of both special and general relativity and, more recently, the history of quantum mechanics. He is co-editor of The Cambridge Companion to Einstein (in preparation).

**Grading:** 20% mid exam, 20% final exam, 30% reports/papers, 30% class participation.

**Exam Format:** The exams will have you work out a few problems identical or very similar to those worked out in class.

**HSEM 2630H Honors Seminar: Climate Change: Myths, Mysteries and Uncertainties**
A-F only, 2 credit(s), max credits 6; prereq [Fr or soph] honors student;

**Instructor:** Griffis,Timothy John

**Description:** Climate change is the norm; not the exception. The geological and archaeological records are rich with evidence of a climate system that is dynamic and non-steady state. Yet we face the challenges of understanding the complexities of this system in order to better engage the political stage. This course examines the theory of climate change and explores environmental signals that are used to diagnose climate variability. The myths, mysteries, and uncertainties about the climate record and the biophysical feedback processes operating in the Earth-Atmosphere system will be discussed. Tim Griffis is an Associate Professor in the Department of Geology and Climate at the University of Minnesota and is an Associate Editor of Journal of Geophysical Research ? Biogeosciences and Agricultural and Forest Meteorology. His research has focused on the carbon and water cycles of arctic and boreal ecosystems in Canada and agricultural ecosystems of the Upper Midwest, United States. His current research projects include: Measurement and modeling of land-atmosphere isotopic CO2 exchange; Experimental and modeling study of

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ecosystem-atmosphere oxygen isotopic fluxes and discrimination mechanisms; and Investigation of carbon cycle processes within a heavily managed landscape: An ecosystem manipulation and isotope tracer approach.

HSEM 2702H Honors Seminar: Medicine, Memoir, and History
A-F only, 3 credit(s), max credits 6; prereq [Fr or soph] honors student; Instructor: Kernahan, Peter
Description: Student may contact the instructor or department for information.

HSEM 2714H Honors Seminar: The Physiological & Lifetime Benefits of Exercise
A-F only, 3 credit(s), max credits 6; prereq [Fr or soph] honors student; Instructor: Halvorsen, II, Daniel Kasberg
Description: This Honors Seminar is a critical thinkers? paradise for practical applications of cross-over disciplines which will hopefully result in a better understanding of how to live a healthy, energetic, and productive life into old age. The concepts and paradigms include exercise physiology, behavioral psychology, up-stream medicine, health promotion, and disciplines of relevance to each student. You will be required to attend class, learn to discuss ideas, make logical arguments, accept new ways of thinking and problem solving, make PowerPoint presentations, and expand your perspectives on lifestyle and health. You get to select four relevant presentation topics of your choice. This course will open your eyes to many academic and career options in medicine, exercise physiology, sports medicine, exercise medicine, physical therapy, public health, and others. Dan Halvorsen is a world renowned physiologist specializing in bioenergetics, exercise physiology, clinical exercise medicine, elite sports performance and gifted-talented curriculum development. As a professional athlete in tennis and basketball he traveled and competed world-wide. He serves on national committees for health reform and the National Physical Activity Plan 2010; and regularly lectures world-wide on Exercise Medicine, Bioenergetics, and Health Reform. Dan serves as the team physiologist for the Gopher teams, Olympic athletes, and local professional sports teams as well as area musicians.

HSEM 3012H Honors Seminar: East/West/East:18-20th Century Interrelationships
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq [Jr or sr], honors; Instructor: Weisberg, Gabriel
Description: By using each class session (a two hour format each week) to examine key texts that provide evidence of the interrelationships between East and West students will be exposed to aspects of cultural assimilation, transference, and absorption by seeing how art works reflected cultural and aesthetic ideas. Key art works from the collections of the Minneapolis Institute of Art (with some classes held inside the museum in front of key objects) will foster further understanding of how Chinoiserie, Japonisme and European influence on Japan will emerge, since these are key movements in this era of time. Occasional use of MIA Curators, as guest teachers, will assist the course. As a faculty member since 1985, Dr. Gabriel Weisberg has been engaged in research on ties between East and West, especially with regard to the tendency/theme known as Japonisme?the ways in which Japan influenced European art and thought and the reciprocal ties between the West and Japanese development. He has published widely on this theme. He has organized international loan exhibitions including one at the Van Gogh Museum (2004) on ?The Origin of L?Art Nouveau: The Bing Empire? and various exhibitions and publication that focused on the ways in which Siegfried Bing (1838-1905) an art dealer and collector, valued, promoted, and popularized Japanese art in the West.

HSEM 3022H Honor Seminar: Cinema and Utopia
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq [Jr or sr], honors; Instructor: Ganguly, Keya
Description: The search for utopia or an ideal place serves as a powerful resource for literary and cinematic imagination worldwide?whether that is in fantastic fables that project into the future, satires that expose the wrongs of society in order to imagine change, or even tragedies that show how things might be by reflecting on their desolation in the present. In this course, we will explore the idea of utopia by looking at the ways it has been presented in the visual language and narrative content of cinema. Through a range of films from a variety of filmmaking traditions, the course will aim to provide students with an encounter with the utopian imagination. Keya Ganguly teaches film, cultural studies, postcolonial theory, and the sociology of culture; she has recently finished a book on the ?art house? cinema of the Indian director Sayyait Ray (forthcoming from the University of California Press) and is writing another on nostalgia and mainstream Hindi cinema (Bollywood).

HSEM 3028H Honors Seminar: Inventing Childhood in Modernity
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq [Jr or sr], honors; Instructor: Brewer, Maria M
Description: of the child and childhood in France. Focusing on particular contextual moments, we will elaborate ways of reading the diverse sites of childhood as they emerge in literature and cultural history. As we identify the registers, idioms, and images through which childhood is symbolically articulated in modernity, we will examine representations of the child? 3 experiences of language, memory, and identity as well as the child? s relation to the permeable and shifting borders between public and private culture. Readings and discussions are to be divided into three sites?: 1) Representations of the Child in History 2) Literary Sites of the Child in Modernity, 3) The Child in French film. The semester course includes lectures and discussions as well as the viewing of selected films. The weekly workload consists of 70-100 pages of reading. Two papers (of 8 and 15 pages respectively) and a midterm examination in essay format are required. Grading distribution is as follows: the two papers (50%), the midterm examination (20%), class participation (10%) and presentations (10%). Course grading and workload are consistent with the policies posted at http://www.umn.edu/usenate/policies/grades &academic.html/ Professor Maria Brewer? s teaching and research interests are in modern literature, theater and performance, and literary and cultural theory. She has published on the cultural legacies of narrative in postmodernity, feminist theory and narrative, fiction and historical reference, and performance and theatricality. She is currently working on projects dealing with incommensurability, memory, history, and the social bond in literature and performance in modern France. She is Editor, with Daniel Brewer, of L?Esprit Createur.

HSEM 3038H Honors Seminar: Radicalism in Early America
A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq [Jr or sr], honors; Instructor: Fischer, Kirsten
Description: Radicalism in early America (through the 1850s) took many different forms as radicals variously challenged traditional family structures, arrangements of property, relations of gender, race, and class, notions of the self and self-governance, ideas about the divine and about humanity? s relationship to a Supreme Being, the boundaries of social communities, and the sovereignty of political nations. The course develops a conceptual framework for radicalism, investigating why certain goals and strategies appear radical in their historical contexts. The course is not a survey of all radical movements in early America. Instead, we will focus on three broad groupings of radical reform efforts: to investigate the impact of these movements on society more broadly: 1) Religious visionaries, including Puritans in 17th-century New England, evangelicals in the Great Awakening, and deists in the 18th-century, 2) Political revolutionaries during and after the American Revolution, 3) Radical social reformers in the 19th century such as abolitionists, women? s rights activists, utopians, and transcendentalists. An important theme throughout involves violence, both the systemic violence that spurred radicals to take action against it, as well as...
the violent measures some radicals themselves deployed. Religiousity also permeates much of the history of American radicalism, and Evangelical Protestantism in particular played a prominent role in movements for social change. Assignments: We will read scholarly books, articles, and primary sources to analyze and evaluate radical individuals and radical movements in early America. Approximately 100-150 pages of reading per week. Kirsten Fischer is an associate professor of History. Her interests include colonial and revolutionary America, U.S. social and intellectual history, and race and racial ideologies in early America. She is the author of Suspect Relations: Sex, Race, and Resistance in Colonial North Carolina (Ithaca: Cornell University Press, 2002) and co-editor of Colonial American History in the series Blackwell Readers in American Social and Cultural History (Oxford, UK: Blackwell Publishers, 2002).

**Style:** 20% Lecture, 60% Discussion, 20% Small Group Activities.

**Grading:** 80% reports/papers, 20% class participation.

**HSEM 3046H Honors Seminar: Communicating Between Cultures**

**A-F only, 3 credit(s), max credits 6; prereq [Jr or sr] honors**

**Instructor:** Junghare, Indira Y

**Description:** We use language to do things. We use it to express our emotions and attitudes, to give our ideas and opinions, to complain, to gain acceptance or approval, and to receive and transmit information. Essentially, it is a means of cultural communication. There are different ways we can communicate. Linguistic variation and sociocultural factors. The goal of the course is to prepare students with the understanding of sociolinguistic variants and how they differ from culture to culture and how they are actually used in real settings. The students will develop skills and understanding of appropriate ways of successful cross-cultural communication. Indira Junghare holds a Ph.D. in Linguistics from the University of Texas. Her publications are in the diverse disciplines of linguistics, literature, philosophy, and religions. She has been recognized as a CLA distinguished teacher and has received an Outstanding Faculty Award from the CLA Student Board, at the University of Minnesota.

**HSEM 3054H Honors Seminar: Flexible Thinking: Cognitive Neuroscience Views**

**A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq [Jr or sr] honors;**

**Instructor:** Koustaal, Wilma

**Description:** This seminar will examine recent research findings from the cognitive, brain, and social sciences to arrive at a better understanding of the conditions that foster, or impede, flexible thinking. A recurrent theme will be that creatively adaptive thinking depends both on automatic (intuitive/perceptual) mental processes and more controlled or deliberate processes, and most often emerges from a combination of these two modes of processing. Representative topics will include: the search for evidence and jumping to conclusions, including research on delusional thinking, and automatic thinking; the effects of reinforcing variable rather than habitual behavior; the role of goals, and adaptive changes in goals, in the creative development of ideas; the need for both highly specific and more abstract ways of accessing our knowledge and memory for experiences; the ways in which emotions may enhance or impair flexibility in thought; and the importance of mentally stimulating environments in adaptive cognition and behavior, and the brain changes that both accompany, and support, flexible thinking. We will read original research papers from several disciplines and multiple methodologies so as to arrive at a broad, integrated, and empirically informed view of flexible thinking. Dr. Wilma Koustaal's research on human memory, thinking, and judgment focuses on factors that influence how and when we successfully use what we know, particularly the levels of detail at which we encode and use information, and how this contributes to effective problem solving and creative thought. Research in her lab draws on many methodologies: cognitive-behavioral studies both with healthy young and older adults and neuropsychological populations (e.g., global amnesia, semantic dementia), clinical psychology (e.g., effects of depression on thinking and judgment), and brain imaging (functional magnetic resonance imaging). Dr. Koustaal also teaches an upper-year seminar course on Memory, Belief, and Judgment (Psy 5960), and the Psychology of Human Learning and Memory (Psy 5014).

**HSEM 3103H Honors Seminar: Understanding Evolution-Creationism Controversy**

**A-F only, 2 credit(s), max credits 9, 3 completions allowed; prereq Jr or sr honors;**

**Instructor:** Moore, Randy

**Description:** Although Charles Darwin announced his ideas about evolution 150 years ago, there continues to be a controversy about his ideas in the United States. Why is there a controversy? What is creationism, and why shouldn't it be taught in public schools? Why not give equal time to creationism? And what is intelligent design? This seminar is meant to help students develop their own understanding of the evolution-creationism controversy, including its history, legacy, relevance, and key people. We will discuss a variety of issues related to the controversy, including those involving court decisions, public opinion, public education, and related issues (e.g., racism, politics, etc.). Minnesota has had a critical role in the controversy, and we'll visit local sites associated with the controversy (e.g., the church where fundamentalism was organized in the U.S.). Many people are emotional and opinionated about the evolution-creationism controversy. Although the focus of this course is not on opinions, we will talk about why so many people feel strongly about these issues, and why the controversy persists. You'll be interested in, and probably surprised by, what you learn. Randy Moore is a Professor of Biology in the Biology Program of CBS. His research interests include the evolution-creationism controversy and studying how students learn science. Moore, who has won several teaching awards, has written a variety of books about the controversy. He is asked to speak throughout the country about the evolution-creationism controversy, and he incorporates these experiences into the seminar.

**HSEM 3716H Honors Seminar: Issues in Bioethics**

**A-F only, 3 credit(s), max credits 6; prereq [Jr or sr] honors student;**

**Instructor:** Marshall, Mary Faith

**Description:** Bioethics concerns the identification, analysis, and resolution of ethical problems that arise in planning for the care of patients (human and other species), in biomedical research, and in relation to the natural world. This course deals with ethical problems that occur frequently in the clinical setting, in public health venues, in research, and in our physical environment. The course emphasizes the ethical responsibilities of laypersons, health professionals, researchers and policy makers in planning for and resolving bioethics issues in human and animal patient care, reproductive issues, neuroethics, death and dying, forgoing life-sustaining treatment, war and terrorism, conflicts of interest, pandemics, human and animal research, genetics, bodies and body parts, public and global health, social justice and other topics. The course will be taught in seminar fashion with occasional presentations by guest faculty, patients or family members. A method of case analysis will be taught and used to examine real cases. Each class session will bring didactic material and the case analysis method to bear on a case pertaining to that week's topic. Teaching materials will include the textbook Biomedical Ethics by Maples and DeGrazia, 6th edition as well as selected readings, films, works of literature, art, and music. Mary Faith Marshall is Associate Dean for Social Medicine and Medical Humanities in the Medical School and Professor of Bioethics in the Center for Bioethics at the Academic Health Center. She is the Director of the Ethics Consultation Service at the University of Minnesota Medical Center and co-chair of the Ethics Committee. She has taught a variety of courses in clinical ethics, the ethics of human subjects research, perinatal substance abuse, health policy, literature and medicine and related topics. She is a fellow in the American College of Critical Care Medicine, and is widely published in the field of bioethics.

286
Horticultural Science
305 Alderman Hall

HORT 1001 Plant Propagation
4 credit(s); Meets CLE req of Biological Sciences/Lab Core;
Instructor: Gillman, Jeffrey Hays
Description: This course will cover basic methods of plant propagation including both asexual and sexual means. The fundamentals of plant anatomy, morphology, and physiology will also be covered.
Style: 50% Lecture, 40% Laboratory.
Grading: 40% mid exam, 45% final exam, 45% laboratory evaluation.
Exam Format: short answer and multiple choice

HORT 1003 Master Gardener Core Course: Horticulture for Home & Garden
3 credit(s);
Instructor: Weisenhorn, Julie Edith
Description: This 16-module course is designed to provide a foundation in various horticulture, soil and plant sciences. Modules are taught by various faculty and Extension educators and include such pertinent topics as soils, botany, entomology, plant pathology, herbaceous and woody ornamental plants, lawncare, fruits/vegetables; integrated pest management (IPM), diagnostics, and living with wildlife. The course emphasizes extension publications/resources useful in answering consumer horticulture questions. Designed to prepare Master Gardener volunteers for service in their communities, this class is also a good option for the homeowner or industry employee looking for fundamental education in horticulture and horticulture-related topics. Classes are held annually in the metro area, in selected sites in greater Minnesota and online. Contact: Julie Weisenhorn, Director, Master Gardener Program, weise019@umn.edu; 612-625-1925.

HORT 1014 The Edible Landscape
A-F only, 3 credit(s);
Instructor: Michaels, Thomas E
Description: An edible landscape, for the purposes of this course, is a specific area of outdoor space, established and managed by humans, that supports edible plants. Contemporary edible landscapes in North America are found on scales ranging from the regional (eg monoculture commodity production) to local (orchards, market gardens), to neighborhood (community and residential gardens). Our close relationship with edible landscapes traces to our hunting-gathering origins, but in our cultural responses to technological and social change we in North America have delegated management of these spaces to a small minority and distanced ourselves from our food sources. This course is a small step toward understanding, reclaiming and expanding that space into our daily lives. With imagination and environmental respect we can integrate food plants into pleasing, sustainable and edible landscapes in our yards, neighborhoods and cities. Edible landscapes are complex systems with many functions, including food of course, but also aesthetics, recreation and environmental remediation. Edible landscapes have morphed throughout history, and even today differ from culture to culture. These differences over time and across cultures can be related to changes in technologies, but also to contemporary human needs and expectations, political influences, war, environmental and economic constraints. In this course, students will explore edible landscapes through history, and the influence of contemporary North American cultural norms, economic uncertainty and emerging technologies that have resulted in an upsurge in local foods, organic production, a rekindled interest in home cooking, residential gardens and community supported agriculture. Students will be challenged to creatively integrate these different landscape demands into recommendations of plants, production methods and designs appropriate for specific sites. Students will apply science as a way of knowing, which provides them with a powerful tool for lifelong problem-solving and decision-making about food sources, and also about the impact of personal choices regarding residential landscapes on neighborhoods, watersheds, and, collectively, on regional phenomena such as pollution remediation and addressing global warming.
Style: 40% WebCT web-based lectures 10% Podcast lecture companions 20% Face to face active learning sessions 30% Internet based interaction
Grading: 36% mid exam, 13% final exam, 17% quizzes. 34% assignments (weekly)

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 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: 85% Lecture, 15% Discussion. Sensory Evaluation
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 5% quizzes, 15% class participation.
Exam Format: multiple choice; short answer

HORT 3002W Greenhouse Management
A-F only, 3 credit(s); prereq 1001 or instr consent ; Meets CLE req of Writing Intensive;
Instructor: Anderson, Neil O.
Description: Commercial greenhouses are specialized growing structures that allow for implementing environmental control during crop production. Even if you are not pursuing a career in greenhouse production, your knowledge of growing commercial crops in controlled environments will be useful for all horticulture careers. Greenhouses are common structures at retail nursery & garden centers, golf courses, and in commercial / residential...
HORT 3005W Environmental Effects on Horticultural Crops
3 credit(s); prereq 1001, BIOL 1009, soph; Meets CLE req of Writing Intensive;
Instructor: Markhart III, Albert Henry
Description: Student may contact the instructor or department for information.

HORT 3090 Directed Studies
2-12 credit(s), max credits 72, 6 completions allowed; prereq Nonfr, instr consent;
Instructor: STAFF
Description: Approved field, lab or greenhouse experiences in application of horticultural information and practices.

HORT 3131 Student Organic Farm Planning, Growing, and Marketing
3 credit(s); prereq 1001 or AGRO 1101 or AGRO 1103 or BIOL 1001 or BIOL 1009 or instr consent; Credit will not be granted if credit has been received for: AGRO 3131;
Instructor: King, Robert P
Description: The Student Organic Farm course plans, grows, and markets organic produce and flowers from the Student Organic Farm located on the St. Paul Campus. Through weekly meetings during the Spring Semester students will review past year production and marketing successes and challenges and explore specific organic production practices for soil health and fertility, pest management, composting, handling, season extension, and options for marketing. Students will design a research project that could be executed on the farm during the summer growing season. Students will learn organic seedling production in high tunnels, effective transplanting to minimize weed competition, insect identification with an emphasis on supporting beneficial insect populations, and disease management. The organic vegetables produced on the farm have been sold at farmer's markets, by office delivery, to restaurants, coops, and local school districts. And of course eagerly consumed by the growers!
Style: 20% Lecture, 5% Film/Video, 20% Discussion, 22% Laboratory, 20% Small Group Activities, 5% Student Presentation, 3% Field Trips, 5% Guest Speakers.
Grading: 30% special projects, 35% written homework, 5% attendance, 5% in-class presentation, 10% class participation, 15% problem solving.

HORT 4015 Advanced Woody and Herbaceous Plant Topics: Flowering Trees and Shrubs
A-F only, 1 credit(s), max credits 7, 7 completions allowed; prereq 1015;
Instructor: Hokanson, Stan C
Description: Student may contact the instructor or department for information.

HORT 4063 Turfgrass Science
A-F only, 3 credit(s); prereq 4061;
Instructor: Watkins, Eric
Description: This course will focus on turfgrass physiology and how it relates to management practices. Students will learn how to apply turfgrass science principles and techniques to real-world situations. The course is designed for students who are preparing for careers in turfgrass science or related fields. The course will consist of lecture, discussion, and lab. Topics covered include, but are not limited to: heat/cold tolerance, drought tolerance, shade adaptation, plant growth regulation, wear tolerance, and fertility.
Style: 30% Lecture, 15% Discussion, 15% Laboratory, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers, 10% Web Based, 5% Service Learning.
Grading: 15% mid exam, 15% final exam, 10% reports/papers, 10% special projects, 10% quizzes, 10% in-class presentation, 10% class participation, 10% laboratory evaluation, 10% problem solving.
Exam Format: Short answer, essay
professional experience in horticulture businesses, government agencies, arboretum, and botanical gardens achieved through a supervised practical experience. Must work a minimum of 250 hours. Hort 4096 may be repeated once for a total of 2 credits. Credit for the internship will only be granted after successful completion of one of the following projects: A. Write a 4-5 page paper detailing your internship experience. The focus of the paper should be determined in consultation with your advisor. B. Present a public seminar on your internship. C. Publish a webpage about your internship.

**Grading:** S/N only

**HORT 4401 Plant Genetics and Breeding**

4 credit(s); prereq Biol 1009 or equiv or grad, instr consent ; Credit will not be granted if credit has been received for: AGRO 4401;

*Instructor:* Thill, Christian A

**Description:** This course is designed for undergraduate or Master of Agriculture students. The emphasis will be on plant genetics and breeding and requires no prior genetics course (although a biology course is required). Students taking the course should be interested in using the products of plant breeding rather than being a professional plant breeder. The purpose of this course is to cultivate an appreciation for the fundamental principles of plant genetics and genetic processes and the procedures plant breeders use to create new varieties. Topics range from molecular aspects of genetics, Mendelian genetics, biotechnology, and genomics to variety development, seed multiplication, and intellectual property issues. Class material on Web CT/Web Vista.

**Style:** 55% Lecture, 3% Film/Video, 5% Discussion, 30% Laboratory, 5% Small Group Activities, 2% Student Presentation.

**labatory involves working with plant material in the greenhouse.**

**Grading:** 15% mid exam, 25% final exam, 20% reports/papers, 15% special projects, 10% quizzes, 15% additional semester exams. Reports and papers and special project part of labs

**Exam Format:** The exams emphasize problem solving and synthesis of material from lecture and labs. Questions are short answer, TF multiple choice, matching, vocabulary and problems.

**HORT 5007 Advanced Plant Propagation**

3 credit(s); prereq 1001;

*Instructor:* Olin, Peter Joel

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

**HORT 5023 Public Garden Management**

2 credit(s);

*Instructor:* Olin, Peter Joel

**Description:** With the growth in public gardens, from city, county, and state gardens to private gardens donated to public service there is, and will continue to be, a demand for people skilled in the management of public gardens. Investigation into all areas of operations and management will provide an overview of the knowledge and skills necessary for an individual looking toward a career in public garden management.

**Style:** 30% Lecture, 30% Discussion. Site visits.

**Grading:** 40% reports/papers, 20% class participation, 40% other evaluation. Attendance

**HORT 5051 Floriculture Crop Production**

A-F only, 4 credit(s); prereq 1001, 1015, 3002;

*Instructor:* Anderson, Neil O.

**Description:** The purpose of this course is to acquaint students with the identification and basic cultural requirements of commercially produced bedding plants, gain experience in growing them, and conduct experiments to understand current problems. Plant physiology and breeding are integrated with commercial growing practices to enhance intelligent bedding plant production. The important role of bedding plants in the human environment will be discussed, with special emphasis on future issues. Through the use of interactive learning, field trips, written assignments, workbook questions, and in-class discussions students will learn crop requirements and the interactions between the marketing chain of breeders, producers, distributors, growers, retailers, and consumers. The course is designed for undergraduates (majors and non-majors). Upon completion of this course, each student should have command of the following concepts: - Identification of major and minor potted bedding plant crops, including annuals, biennials, and perennials. - Understand the requirements necessary to maximize asexual (% rooting) and sexual (% seed germination) propagation and yield potential. - Be conversant in the cultural requirements for the effective and timely production of bedding plants. - Understand, manipulate, and anticipate the effects of the five factors of plant growth for quality plant production. - Maintain an organized lab book for collecting data. - Correctly summarize experimental results, communicate these findings verbally and in writing to your colleagues, and develop recommendations. - Recognize quality bedding plants, using industry standards.

**HORT 5090 Directed Studies**

1-6 credit(s), max credits 18, 18 completions allowed; prereq 8 or upper div Hort courses, instr consent ;

*Instructor:* STAFF

**Description:** Opportunities for in-depth exploration of concepts, technology, materials, or programs in specific areas to expand professional competency and self-confidence. Planning, organizing, implementing, and evaluating knowledge obtained from formal education and experience.

**HORT 5131 Student Organic Farm Planning, Growing, and Marketing**

3 credit(s); prereq 1001 or AGRO 1101 or AGRO 1103 or BIOL 1001 or BIOL 1009 or instr consent ; Credit will not be granted if credit has been received for: AGRO 3131;

*Instructor:* Markhart Ill, Albert Henry

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

**HORT 5003 Master of Agriculture in Horticulture Professional Experience Program:**

Internship S-N only, 1-3 credit(s), max credits 6; prereq Master of agriculture in horticulture student, instr consent , completed internship contract;

*Instructor:* Michaels, Thomas E

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

**HORT 5007 Extension Horticulture Practicum**

1-5 credit(s), max credits 5, 1 completion allowed; prereq 9 grad cr in [ag or bio] science, instr consent ;

*Instructor:* Smith, Alan G

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

**HORT 6090 Graduate Horticultural Research**

1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent ;

*Instructor:* Smith, Alan G

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

**HORT 8270 Graduate Seminar**

A-F only, 1 credit(s); prereq Grad major in [hort or applied plant sciences or ent or agro or plnt brdg or plnt path or soil] or instr consent; Credit will not be granted if credit has been received for: AGRO 8270;

*Instructor:* Wyse, Donald L

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

**HORT 8280 Current Topics in Applied Plant Sciences**

S-N only, 1 credit(s); prereq Grad major in [hort or applied plant sciences or ent or agro or plnt brdg or plnt path or soil] or instr consent;

*Instructor:* Thill, Christian A

**Description:** Student may contact the instructor or department for information.
University of Minnesota - Course Guide for Twin Cities Campus  
Spring 2010

**Human Factors**  
1100 Mechanical Engineering

**HUMF 8001 Special Topics: Human Factors/Ergonomics**  
2-3 credit(s), max credits 3, 1 completion allowed; prereq Enrollment in good standing, grad HumF minor;  
Instructor: Hayes, Caroline Clarke  
**Description:** Student may contact the instructor or department for information.

**HUMF 8002 Proseminar in Human Factors/Ergonomics**  
A-F only, 1 credit(s), max credits 2; prereq Enrollment in good standing, grad HumF minor;  
Instructor: Stoffregen, Thomas  
**Description:** Student may contact the instructor or department for information.

**HUMF 8541 Decision Support Systems**  
A-F only, 4 credit(s); prereq Undergrad-level computer programming course or inst consent; programming skills recommended; Credit will not be granted if credit has been received for: IE 8541;  
Instructor: Hayes, Caroline Clarke  
**Description:** Student may contact the instructor or department for information.

---

**Human Resource Development**  
330 Wulling Hall

**HRD 3001 Introduction to Human Resource Development**  
3 credit(s);  
Instructor: Fritsch, Jocelyn M  
**Description:** Student may contact the instructor or department for information.

**HRD 3196 Profession and Practice of Human Resource Development**  
2 credit(s); prereq 3001, 3201, 3301, ADED 3101, HRD BS major;  
Instructor: Anderson, Orkideh M.  
**Description:** This is a required class for all undergraduate students majoring in Human Resource Development. The class has a dual purpose: (1) to prepare you to find and complete the required HRD 5196 Internship experience, and (2) to orient you to the nature and details of a career in the field of Human Resource Development. The class should be taken in the term immediately preceding the internship, HRD 5196.  
**Style:** 30% Lecture, 30% Small Group Activities, 30% Guest Speakers, 10% Web Based.

**HRD 3201 Introduction to Training and Development**  
A-F only, 3 credit(s);  
Instructor: Magnuson, Christina Marie  
**Description:** Student may contact the instructor or department for information.

**HRD 3301 Introduction to Organization Development**  
3 credit(s); prereq Undergrad;  
Instructor: Jeung, Chang-Wook Jay  
**Description:** Student may contact the instructor or department for information.

**HRD 5101 Foundations of Human Resource Development**  
1 credit(s);  
Instructor: Jo, Sung Jun  
**Description:** Student may contact the instructor or department for information.

**HRD 5105 Strategic Planning through Human Resources**  
A-F only, 3 credit(s); prereq 5001 or 5101, 5102, 5103, 5104;  
Instructor: Peterson, Shari L  
**Description:** This course explores the strategic nature of organizations and how HRD can achieve their goals which must be aligned with those of the organization. Strategic planning is viewed holistically and framed within the context of systems thinking. The focus is on identifying ways that HRD senior managers can become strategic and maintain that status so as to be recognized as a strategic player in the organization.  
Course Objectives During this course, students will have an opportunity, through participation in discussion and through individual and group activity to engage in critical thinking in order to:  
1. Identify and describe the strategic role of human resource development.  
2. Identify objectives and strategies for getting HRD to the strategic planning table.  
3. Understand the business goals of an organization and how HRD initiatives contribute to achieving those goals.  
4. Explain the relationship between organizational core competencies and competitive advantage, and how these constructs are related to HRD initiatives.  
5. Analyze organizational missions and identify relevant HRD contributions.  
6. Identify strategies for achieving high-level performance from human resources.  
7. Understand the strategic nature of financial accountability for HRD.  
8. Enhance writing and critical thinking skills.

**HRD 5111 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 completion allowed; prereq 5001, 5201 or 5301;  
Instructor: Anderson, Orkideh M.  
**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 completion allowed; prereq 5001, 5201 or 5301;  
Instructor: Anderson, Orkideh M.  
**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: Sisk, Meg  
**Description:** Student may contact the instructor or department for information.

**HRD 5301 Organization Development**  
A-F only, 3 credit(s);  
Instructor: Hagen, Marcia Sue  
**Description:** This course is an introduction to major theories, concepts, skills and techniques of organization development for business and industry. The course will discuss organizational culture, the roles of internal and external change agents, and the use of the action research model as a methodology for applying interventions within an organizational setting.

**HRD 5302 Managing Work Teams in Business and Industry**  
A-F only, 3 credit(s); prereq 2 core courses in HRD;  
Instructor: Hanes Goodlander, Lisa Ann  
**Description:** Student may contact the instructor or department for information.

**HRD 5409 Planning and Decision-Making Skills**  
1 credit(s);  
Instructor: Plachecki, Frank John  
**Description:**
Description: Student may contact the instructor or department for information.

HRIR 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 PhD, James M
Description: Student may contact the instructor or department for information.

HRIR 5624 Sales Training
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: BIE 5624;
Instructor: Gaddey, Roy Arthur
Description: Student may contact the instructor or department for information.

HRIR 5626 Customer Service Training
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: BIE 5626;
Instructor: Heither, Catherine A
Description: Student may contact the instructor or department for information.

HRIR 5626 Customer Service Training
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: BIE 5626;
Instructor: Cooper, Diana C
Description: Student may contact the instructor or department for information.

HRIR 5627 Management and Supervisory Development
3 credit(s); Credit will not be granted if credit has been received for: BIE 5627;
Instructor: Marinovich, John
Description: Student may contact the instructor or department for information.

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: Benraouane, Sid A.
Description: Student may contact the instructor or department for information.

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: Vellella, Rob
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: Kim, Eugene
Description: Student may contact the instructor or department for information.

HRIR 3032 Training and Development
2 credit(s); prereq CSOM upper div undergrad major grad;
Instructor: Kim, Eugene
Description: Student may contact the instructor or department for information.

HRIR 3041 The Individual in the Organization
2 credit(s);
Instructor: Diehn, Erica Waldera
Description: Student may contact the instructor or department for information.

HRIR 3042 The Individual and Organizational Performance
2 credit(s);
Instructor: STAFF
Description: Factors influencing group, team, and organizational performance. Examines systems that drive organizational success. Topics include job design and organization structure, organization effectiveness measures, culture, group dynamics, teamwork; power and influence.

HRIR 4100W Undergraduate HRIR Leadership Capstone
A-F only, 4 credit(s); prereq [3031 or Concurrent registration is required (or allowed) in 3031], [3041 or Concurrent registration is required (or allowed) in 3041], [two additional cr in HRIR undergrad program]; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: With recent public leadership failures at all levels of government and business, the question of how to identify and develop strong authentic and ethical leaders for the 21st century is an important societal problem, one being tackled by education, government and in the corporate boardroom. This course is the capstone experience for HRIR majors and is intended to aid students with a)integrating and applying experience from prior coursework and b)becoming effective and ethical leaders. The course is focused on preparing HR majors (or other interested undergraduate students) to develop programs and assist in the creation of corporate cultures and strategies that nurture and support effective and authentic leadership. This course is also focused on preparing students themselves to become effective, authentic leaders-whether it is in business, government, society, or in the classroom, the neighborhood, or the family. As a participant in the course, students will be expected to read and write, interview leaders, watch films, participate in group discussions and exercises, research organizational practices in leadership development, as well as to solicit feedback from others and to discuss their strengths and vulnerabilities as a person and as a leader with their classmates.

HRIR 5000 Topics in Human Resources and Industrial Relations
2 credit(s), max credits 8, 4 completions allowed;
Instructor: Benraouane, Sid A.
Description: Student may contact the instructor or department for information.

HRIR 5022 Managing Diversity
2 credit(s); prereq CSOM upper div undergrad major grad;
Instructor: Leslie, Lisa
Description: Student may contact the instructor or department for information.

HRIR 5023 Employment and Labor Law for the HRIR Professional
A-F only, 2 credit(s); prereq [[At least 60 sem cr or 75 qtr cr], 2.00 GPA] or grad student or instr consent;
Instructor: O'Toole, Carol Ann Berg
Description: This course covers the growing body of laws and their application to the workplace; human rights, equal employment opportunity, compensation and benefits, employee protection, and labor relations. Special issues (e.g., wrongful discharge, sexual harassment, defamation) are also discussed in the context of statute, case law, and their application to work settings. Exam Format: True False, Multiple Choice, Short Answer

HRIR 5054 Public Policies on Employee Benefits: Social Safety Nets
2 credit(s); prereq Undergrad in micro economics; HRIR
HRIR 8042 Organizational Structure and Performance
2 credit(s); prereq 8041 or instr consent, grad HRIR major or dept consent; grad majors must register A-F;
Instructor: Ben-Ner, Avner
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: Davis, Mike
Description: Student may contact the instructor or department for information.

HRIR 8071 Labor Relations and Collective Bargaining
4 credit(s); prereq Econ 1101, Econ 1102 or instr consent, grad HRIR major or dept consent; grad majors must enroll A-F only;
Instructor: Sojourner, Aaron
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: Shaw, Jason D.
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 8830 Seminar: Staffing, Training, and Development
1-4 credit(s), max credits 8; prereq 8031 or instr consent, HRIR PhD student or dept consent; grad majors must enroll A-F only;
Instructor: Duffy, Michelle Kathleen
Description: Student may contact the instructor or department for information.

HUM 1002 Humanities in the West II
4 credit(s); Credit will not be granted if credit has been received for: HUM 3002; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Norwood, James
Description: In our study of the humanities in the Middle Ages (c. 500-1400 AD), we will cover a dazzling array of topics, including the phenomenon of courtly love and chivalry; the origin of the Grail myth; the Crusades; and the Knights Templar. We will study as well such influential figures as St. Augustine, Charlemagne, Eleanor of Aquitaine, Thomas Becket, and Dante. A special focus in the course will be Gothic art and architecture. We will also consider the life of Joan of Arc, the rise of medieval cities, St. Thomas Aquinas, the Magna Carta, and many other influential developments in this great age. Throughout the course we will examine how the tradition of Western humanities has shaped institutions, social roles, and personal values we still possess today. Video and slide presentations will accompany many of the classes. IMPORTANT NOTES: (1) Grading will be based primarily on scholarly expository writing with high standards; (2) Class attendance is required and will be a component of grading in this course. This is intended as a lively learning experience with the class comprised of a wide range of student disciplines and majors.
Style: 85% Lecture, 10% Film/Video, 5% Discussion. For specific questions about the course, please feel free to contact me directly at norwo001@umn.edu
Grading: 25% final exam, 25% attendance. 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: take-home essay with high standards for grading (eight criteria to be covered in class, all of which must be fulfilled for satisfactory grades)
This course focuses on the contributions of the Western tradition in art, literature, history, and ideas during the periods of the Renaissance and Reformation in the fifteenth and sixteenth centuries. One of our course topics will be the phenomenon of THE DA VINCI CODE, the life and art of Leonardo, and how much of Dan Brown’s popular novel is based on fact. Readings will include selected works of Machiavelli, Marlowe, Cervantes, Shakespeare, Montaigne, Erasmus, and More. We will also cover the impact of Italian and Northern humanism with focused study of the life of Martin Luther of Augsburg. This 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 examine how the tradition of Western humanities has shaped institutions, social roles, and personal values as we still possess today. Video and slide presentations will accompany many of the classes.

IMPORTANT NOTES: (1) Grading is based primarily on scholarly expository writing with high standards; (2) Class attendance is required and will be a component of grading. This is intended as a lively and challenging learning experience with the class comprised of a wide range of student disciplines and majors.

Style: 85% Lecture, 10% Film/Video, 5% Discussion. For specific questions about the course, please feel free to contact me at norwo001@umn.edu

Grading: 25% mid exam, 25% final exam, 25% reports/papers, 20% quizzes, 5% attendance. 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: take-home essay with high standards for grading (eight criteria to be covered in class, all of which must be fulfilled for satisfactory grades)

HUM 1005 Humanities in the West V
4 credit(s); Credit will not be granted if credit has been received for: HUM 3005; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Norwood,James
Description: ATTENTION!!! JANE AUSTEN FANS!!! In this course, we will be reading Jane Austen’s Persuasion! We also have a great lineup of books and topics from the nineteenth century. In the first half of the course, we will examine themes of society and the Industrial Revolution in our study of John Stuart Mill, Marx, Isben, Mary Shelley, and Henry David Thoreau. The second half will focus on the late 19th and early 20th centuries with emphasis on the themes of science and art as we examine Darwin, Conrad, Nietzsche, Freud, Flaubert, Preust, Verne, and Wilde. Additionally, we will trace revolutionary developments in art through the movements of Romanticism, Realism, and Impressionism. Video and slide presentations will accompany many of the classes. Throughout the course we will examine how the tradition of Western humanities has shaped institutions, social roles, and personal values as we still possess today. Video and slide presentations will accompany many of the classes.

IMPORTANT NOTES: (1) Grading is based primarily on scholarly expository writing with high standards; (2) Class attendance is required and will be a component of grading. This is intended as a lively and challenging learning experience with the class comprised of a wide range of student disciplines and majors.

Style: 85% Lecture, 10% Film/Video, 5% Discussion. For specific questions about the course, please feel free to contact me directly at norwo001@umn.edu

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% special projects, 15% quizzes, 5% attendance. 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: take-home essay with high standards for grading (eight criteria to be covered in class, all of which must be fulfilled for satisfactory grades)

HUM 3003 Humanities in the West III
4 credit(s); Credit will not be granted if credit has been received for: HUM 1003; Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Norwood,James
Description: IMPORTANT NOTE: This course requires a substantial independent research project for 3000-level credit. If you do not yet have junior/senior standing and have not had extensive experience in research and expository writing in the humanities, you should register for Hum 1002. In our study of the humanities in the Middle Ages (c. 500-1400 AD), we will cover a dazzling array of topics, including the phenomenon of courtly love and chivalry; the origin of the Grail myth; the Crusades; and the Knights Templar. We will study as well such influential figures as St. Augustine, Charlemagne, Eleanor of Aquitaine, Thomas Becket, and Dante. A special focus in the course will be Gothic art and architecture. We will also consider the life of Joan of Arc, the rise of medieval cities, St. Thomas Aquinas, the Magna Carta, and many other influential developments in this great age. Throughout the course we will examine how the tradition of Western humanities has shaped institutions, social roles, and personal values as we still possess today. Video and slide presentations will accompany many of the classes.

IMPORTANT NOTES: (1) Grading will be based primarily on scholarly expository writing with high standards; (2) Class attendance is required and will be a component of grading in this course. This is intended as a lively learning experience with the class comprised of a wide range of student disciplines and majors.

Style: 85% Lecture, 10% Film/Video, 5% Discussion. For specific questions about the course, please feel free to contact me directly at norwo001@umn.edu

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% special projects, 15% quizzes, 5% attendance. 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: take-home essay with high standards for grading (eight criteria to be covered in class, all of which must be fulfilled for satisfactory grades)
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 Persect 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 will examine themes of society and the Industrial Revolution in our study of John Stuart Mill, Marx, Ibsen, Mary Shelley, and Henry David Thoreau. The second half will focus on the late 19th and early 20th centuries with emphasis on the themes of science and art as we examine Darwin, Conrad, Nietzsche, Freud, Flaubert, Proust, Verne, and Wilde. Additionally, we will trace revolutionary developments in art through the movements of Romanticism, Realism, and Impressionism. Video and slide presentations will accompany many of the classes. Throughout the course we will examine how the tradition of Western humanities has shaped institutions, social roles, and personal values we still possess today. Video and slide presentations will accompany many of the classes. IMPORTANT NOTES: (1) Grading is based primarily on scholarly expository writing with high standards; (2) Class attendance is required and will be a component of grading. This is intended as a lively and challenging learning experience with the class comprised of a wide range of student disciplines and majors.
Style: 85% Lecture, 10% Film/Video, 5% Discussion. For specific questions about the course, please feel free to contact me at norwo001@umn.edu
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% special projects, 15% quizzes, 5% attendance. 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: take-home essay with high standards for grading (eight criteria to be covered in class, all of which must be fulfilled for satisfactory grades)

HUM 3837 Nietzsche
3 credit(s); prereq Jr or sr; Credit will not be granted if credit has been received for: HUM 4837; Instructor: Kliger, George
Description: The aim of the seminar is to examine Nietzsche's multifaceted thought, and to arrive at a critical assessment of his contributions. Major works by Nietzsche will be examined and critically assessed in the chronological order of their publication. The topics covered will include: (a) Nietzsche's conceptions of the Apollonian and the Dionysian as principles informing tragedy; (b) his views on truth and knowledge; (c) his views on the origin and nature of morality; (d) his doctrine of the will to power; (e) his critique of Christianity and related philosophical and religious traditions; (f) his critique of modern European culture and society; (g) his concepts of eternal recurrence and the overman.
Style: 60% Discussion, Oral presentations
Grading: 90% reports/papers, 10% in-class presentation.

HUM 3970 Directed Studies
1-4 credit(s), max credits 4, 1 completion allowed; prereq instr consent; Instructor: STAFF
Description: Student may contact instructor or department for information.
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 5522 Quality Engineering and Reliability**
4 credit(s); prereq [4521 or equiv]; [upper div or grad student or CNR]

**Instructor:** STAFF

**Description:** The course focuses on building quality through product and process design and seeking continuous improvements by identifying weakness bottlenecks, wastes, etc and using concepts such as Robust Design Quality Function Deployment (QED), Failure Mode Effect Analysis (FMEA), Fault trees, event trees, goal trees, Design Review, value analysis, principles of integration, cause effect analysis, reengineering benchmarking, etc. A lot of stress is given on sampling tolerance engineering statistical process control. Control charts variable attribute, process capability indices etc are thoroughly covered. Modeling for improvement of system reliability, availability and maintainability is also covered. The course also stresses on Organizational issues, such as Total Quality Management (TQM), employee empowerment, team work, Performance measurement ISO 9000 series certification, Malcolm Balridge Award.

**Style:** 80% Lecture, 20% Discussion.

**Grading:** 20% mid exam, 40% final exam, 30% special projects, 10% problem solving.

**Exam Format:** problems

**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:** Fiedler, Corrinne (Corrie)

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

**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 8773 Graduate Seminar**
S-N only, 1 credit(s);

**Instructor:** Cooper, William L

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

**IE 8774 Graduate Seminar**
S-N only, 1 credit(s); prereq 8773;

**Instructor:** Cooper, William L

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

**IE 8794 Industrial Engineering Research**
1-6 credit(s), max credits 10, 10 completions 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:** Kortshagen, Uwe Richard

**Description:** Student may contact the instructor or department for information.
A-F only, 2 credit(s); prerq 4082 or project management experience
Instructor: Shah, Shanti R Ganger
Description: Requirements management, analysis, and design of computer system solutions targeting business objectives, as preparation for role of business analyst or system analyst. Topics include: system development life cycle; development methodologies; analysis & design tools/techniques; communication strategies. System architecture as a business strategy.

IDSC 4105 Information Security: Technology, Ethics, Legality, and Standards
A-F only, 3 credit(s); prerq CSCI 4061 or equiv experience with operating systems;
Instructor: Estrem, LeAllan James
Description: In-depth exploration of real-world IT security issues and processes in the information security profession. Research security incidents; develop incident response plans; implement countermeasures; create standards-compliant policies. Topics include detection, risk assessment, technology, secure design, business continuity, forensics, law.

INET 4165 Information Security: Technology, Ethics, Legality, and Standards
A-F only, 3 credit(s); prerq CSCI 4061 or equiv experience with operating systems;
Instructor: Estrem, LeAllan James
Description: In-depth exploration of real-world IT security issues and processes in the information security profession. Research security incidents; develop incident response plans; implement countermeasures; create standards-compliant policies. Topics include detection, risk assessment, technology, secure design, business continuity, forensics, law.

INET 4193 Directed Study
A-F only, 1-4 credit(s), max credits 12, 4 completions allowed; prerq ITI student, dept consent;
Instructor: STAFF
Description: Independent project, topic arranged with and supervised by ITI faculty.

A-F only, 2 credit(s); credit will not be granted if credit already received for: IDSc 3201 3101 3101 or [equiv experience, instr consent ] 3101 or [equiv experience, instr consent ] 3101 or [equiv experience, instr consent ];
Instructor: Reily, Ken
Description: This course is designed for students who have taken IDSC 3101: Introduction to Programming or have equivalent programming experience and wish to supplement their basic programming knowledge. The course welcomes students from all majors who wish to learn basic computer programming. This is a required course for MIS majors. This course will supplement students? basic knowledge of programming concepts by introducing intermediate programming concepts that allow the student to transition from developing simple applications to developing larger and more full-featured applications. The course will cover topics such as object-oriented programming techniques, database applications, and modern web applications. In addition, the course will refine students? basic techniques by covering intermediate programming style, program performance, and basic user interface design principles. Students will learn these concepts through step-by-step tutorials, in-class demonstrations and exercises (the course is taught in an interactive classroom lab), and several take-home programming assignments. Student performance will be evaluated using a combination of objective quizzes and exams, completion of assigned exercises, and expert evaluation of the students? take-home programming assignments. This course uses the latest tools and techniques for building applications, and assumes that students have introductory programming knowledge from IDSC 3101 or equivalent experience.
Style: 20% Lecture, 10% Discussion, 50% Laboratory, 20% Demonstration.
Grading: 20% mid exam, 30% final exam, 50% written homework. Written homework consists of take-home computer programming assignments.
Exam Format: Objective (multiple choice/true-false) and/or computer programming

IDSC 3001 Information Systems for Business Processes and Management
A-F only, 3 credit(s); prerq BA 1001 or experience using Windows/Internet;
Instructor: Olson, Timothy Harold
Description: Student may contact the instructor or department for information.

IDSC 3101 Introduction to Programming
A-F only, 2 credit(s); credit will not be granted if credit already received for: IDSc 3201;
Instructor: Reily, Ken
Description: This course is designed for students with no programming experience who wish to gain a basic understanding of computer programming tools and techniques. The course welcomes students from all majors who wish to learn basic computer programming. This is a required course for MIS majors. This course will introduce students to the basics of computer programming used by companies all over the world to build today's most sophisticated information systems. The course will cover a variety of programming basics including variables, control structures such as if statements and loops, data structures such as arrays and collections, elements of programming style, and basic graphical user interfaces (GUIs). Students will learn these concepts through step-by-step tutorials, in-class demonstrations and exercises (the course is taught in an interactive classroom lab), and several take-home programming assignments. Student performance will be evaluated using a combination of objective quizzes and exams, completion of assigned exercises, expert evaluation of the students' take-home programming assignments, and in-class programming exams. This course uses the latest tools and techniques for building applications, and requires no prior programming experience.
Style: 20% Lecture, 10% Discussion, 50% Laboratory, 20% Demonstration.
Grading: 20% mid exam, 30% final exam, 50% written homework. Written homework consists of take-home programming assignments.
Exam Format: Objective (multiple choice/true-false) and/or computer programming

IDSC 3102 Intermediate Programming
A-F only, 2 credit(s); credit will not be granted if credit already received for: IDSc 3201 3101 3101 or [equiv experience, instr consent ] 3101 or [equiv experience, instr consent ] 3101 or [equiv experience, instr consent ];
Instructor: Reily, Ken
Description: This course is designed for students who have taken IDSC 3101: Introduction to Programming or have equivalent programming experience and wish to supplement their basic programming knowledge. The course welcomes students from all majors who wish to learn basic computer programming. This is a required course for MIS majors. This course will supplement students' basic knowledge of programming concepts by introducing intermediate programming concepts that allow the student to transition from developing simple applications to developing larger and more full-featured applications. The course will cover topics such as object-oriented programming techniques, database applications, and modern web applications. In addition, the course will refine students' basic techniques by covering intermediate programming style, program performance, and basic user interface design principles. Students will learn these concepts through step-by-step tutorials, in-class demonstrations and exercises (the course is taught in an interactive classroom lab), and several take-home programming assignments. Student performance will be evaluated using a combination of objective quizzes and exams, completion of assigned exercises, and expert evaluation of the students' take-home programming assignments. This course uses the latest tools and techniques for building applications, and assumes that students have introductory programming knowledge from IDSC 3101 or equivalent experience.
Style: 20% Lecture, 10% Discussion, 50% Laboratory, 20% Demonstration.
Grading: 20% mid exam, 30% final exam, 50% written homework. Written homework consists of take-home computer programming assignments.
Exam Format: Objective (multiple choice/true-false) and/or computer programming

IDSC 3103 Data Modeling and Databases
A-F only, 2 credit(s); credit will not be granted if credit already received for: IDSc 4203;
Instructor: Zhang, Jingjing
Description: Student may contact the instructor or department for information.

IDSC 3104 Information Technology Infrastructure
A-F only, 2 credit(s); credit will not be granted if credit already received for: IDSc 4203;
Instructor: Naumann, J David
Description: Student may contact the instructor or department for information.

IDSC 3202 Analysis and Modeling for Business Systems Development
A-F only, 4 credit(s); credit will not be granted if credit already received for: IDSc 3202;
Instructor: Fiedler, Corinna (Corrie)
Description: Improving business processes has become a key business strategy: always driving toward faster, cheaper, more reliable processes. A key role in these improvement efforts is that of the Business Analyst, the person who bridges the gap of understanding between the business needs and the technologists (designers and programmers) - - IDSc 3202 emphasizes the science and the art of converting ambiguous and contradictory business concepts into business process models. These models must, of course, be correct, but also precise enough to be implemented. - - Over the semester, we study critical business analyst skills: evaluating current processes, recommending strategic solutions, working with business stakeholders to clarify & document requirements, developing process and data models, and planning for the human side of change. - - The class covers critical skills for those with career goals in any process-oriented role in today's enterprises, including business analyst, supply chain manager,
operations manager, finance manager, MIS manager, project manager. - The course includes hands-on experience with process modeling (Microsoft Visio), project management (Microsoft Project), and database management (Microsoft Access) tools.

Style: 45% Lecture, 30% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers. Class time set aside weekly for team project work.

Grading: 20% mid exam, 10% final exam, 25% special projects, 30% written homework, 15% class participation.

IDSC 4401 Information Security

A-F only, 2 credit(s); prerequisite 3104 or instructor consent

Instructor: Schmidt, Matt

Description: Information security is recognized as one of the most prominent topics in modern information systems management. Security incidents can cause severe damage to corporations in forms of lost productivity, downtime, disclosed confidential data, and reputation implications. With attacks becoming faster and more sophisticated, it is important to understand what can be done to identify, prevent, sustain, and recover from those attacks. One particular aspect of information security that will be the major focus of this class is network security. The importance of network security puts pressure on information systems managers from two directions. On one hand, we are very dependent on internal (LAN) and external (Internet) networks, and losing network access may lead to catastrophic consequences. On another hand, a majority of attacks against information systems are carried out remotely by the means of the same networks that are used for legitimate communications. In this class, we will discuss common problems with basic solutions and techniques that make computer networks and data safer. We will look at the common practices followed by hackers and consider tools that are used for networks attacks as well as how to detect and stop those attacks. This class will be beneficial for you if you are preparing for a career in information systems and related areas, particularly with network management and support or IT audit and assurance. In addition, this class will cover a substantial portion of material common on the Security+ certification exam. This certification is beneficial for people interested in careers in Information Security area. The class will be held primarily in lecture mode with a significant amount of discussion on some tools along with lab demonstrations. Students are encouraged to read about and bring examples of security incidents for class discussion and relate the class concepts to real-world issues.

Style: 55% Lecture, 20% Discussion, 20% Demonstration, 5% Guest Speakers.

Grading: 25% final exam, 35% special projects, 30% quizzes, 10% other evaluation. 3 quizzes at 10% each, 2 projects: one at 15%, and one at 20%

Exam Format: T/F with explanation Multiple choice Short Answer

IDSC 4411 Accounting Information Systems and IT Governance

A-F only, 2 credit(s); prerequisite 3001

Instructor: Schmidt, Matt

Description: As organizations become more and more dependent on information technology, they are being challenged to build and maintain an internal control structure to manage IT risk to an acceptable level. Additionally, regulations such as Sarbanes-Oxley, GLBA, and HIPAA have increased the need for sound internal control and security management, coupled with audit oversight. This course provides the student with an in-depth look into the information technology audit function, internal control, the IT audit process, network security, the systems development life-cycle, compliance issues, IT governance, business continuity, and the various frameworks and methodologies. A series of lectures, case studies, and real world examples will be used to demonstrate this material.

Style: 50% Lecture, 10% Film/Video, 20% Discussion, 5% Small Group Activities, 5% Demonstration, 10% Guest Speakers. Please note that percentages are estimates.

Grading: 45% mid exam, 45% final exam, 10% class participation.

IDSC 4431 Advanced Database Design

A-F only, 2 credit(s); prerequisite 3103

Instructor: Everest, Gordon C

Description: Raise your database design skills to a whole new level. This course receives very high ratings from students. One wrote "enjoyed your class tremendously; one of the best I had at the U." Students learn something substantive to greatly enhance a career in IS, and have fun in the process. This course presents a high-level, conceptual data modeling scheme called Object Role Modeling (ORM). Students gain practical experience developing data models using ORM and its supporting CASE tool, the Natural ORM Architect (NORMA), which is open source software. Topics include: the basics of Entity-Relationship Diagrams (ERD), relational database modeling, and the principles of data normalization; a comprehensive taxonomy and comparison of data modeling schemes; advanced constructs in database design - subtypes and supertypes, ternary relationships, integrity constraints; capturing and representing facts and advanced business rule semantics in a data model; presentation and verbalization of a data model diagram for human understanding and validation; conducting a data modeling project; and mapping an ORM data model to a relational data model. ORM is a new way of thinking which avoids "table think." It enables data modelers to produce models which are semantically richer and easier to understand than traditional ?record-based? data modeling schemes, such as Entity-Relationship (ER) Diagrams and relational tables. TEXT: Terry Halpin and Tony Morgan, Information Modeling and Relational Databases, Morgan-Kaufmann, 2008. AUDIENCE -- For the student or practicing IS professional who wants to learn how to do a good job of designing databases. This course provides the necessary methodology and tool skills.

Style: 70% Lecture, 20% Discussion, 10% Demonstration. Although mostly lecture time, we have a lot of interactive discussion. It makes the class more interesting by getting students involved.

Grading: 25% final exam, 20% quizzes, 50% written homework, 5% class participation. A 10 min, 1 page quiz each week an assignment is not due plus a final exam.

Exam Format: Both quizzes and the final exam: a mix of TF, MC, Blank fill, short answer, and mini design problems. Final exam is comprehensive on the whole course.

IDSC 4490 Information Systems Special Topics: Business Intelligence

A-F only, 2 credit(s), max credits 10, 5 completions allowed

Instructor: Adomavicius, Gediminas

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

IDSC 6040 Information Technology Management

A-F only, 2 credit(s); prerequisite MBA core menu course

Instructor: Subramani, Mani R

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

IDSC 6050 Information Technologies and Solutions

A-F only, 2 credit(s);

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); prerequisite MBA student;

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
IDSC 6423 Enterprise Systems
A-F only, 2 credit(s);
Description: Student may contact the instructor or department for information.

IDSC 6444 Business Intelligence
A-F only, 2 credit(s); prereq [6040 or 6050 or MBA 6240], MBA student;
Description: Student may contact the instructor or department for information.

IDSC 6465 Global Sourcing of IT and IT Enabled Services
A-F only, 2 credit(s); prereq [6040 or 6050 or MBA 6240], MBA student;
Description: Student may contact the instructor or department for information.

IDSC 8003 Accounting and Information Systems
A-F only, 4 credit(s); prereq MAcc student;
Description: Information technology (IT) has transformed the collection of financial data, the nature of financial reporting, the auditing business process, and the practice of financial and managerial accounting within the firm. This course provides the student with relevant background on the technology solution, managerial approaches, systems design and assessment methods, and managerial issues that are specific to this area. It also covers digital data sources, procedures related to financial data and financial reporting, the Sarbanes-Oxley reporting requirements, and IS/IT infrastructure and internal control assessment. Students engage in experiential learning and obtain real world exposure via hands-on use of IT Governance frameworks. A course project is required.

Style: 50% Lecture, 10% Film/Video, 25% Discussion, 10% Student Presentation, 5% Guest Speakers. Please note that percentages are estimates.
Grading: 25% mid exam, 25% final exam, 25% special projects, 25% quizzes.

IDSC 8721 Behavioral Decision Theory
2 credit(s), max credits 4, 1 completion allowed; prereq Business admin PhD student or instr consent; offered alt yrs;
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 completions allowed; prereq Business Admin PhD student or instr consent;
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 completions allowed; prereq Business Admin PhD student or instr consent;
Description: Student may contact the instructor or department for information.

ISE 5104 Construction Estimating
A-F only, 2 credit(s); prereq ISE grad student;
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;
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;
Description: Student may contact the instructor or department for information.

ISE 5202 Traffic Engineering Management
A-F only, 2 credit(s); prereq ISE student;
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;
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;
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 completion allowed; prereq ISE grad student;
Innovation Studies
20 Classroom Office Building

IS 5002 Final Project for Innovation Studies
A-F only, 1-4 credit(s); max credits 4, 24 completions allowed; prereq Completion of IS requirements, dept consent; Instructor: Harkins, Arthur M
Description: The Final Project must have an applied, field-based dimension, and may be undertaken in one of two ways: (1) as an internship in an organization such as a business, school, government agency, nonprofit or community group, or (2) as a hands-on study project that sheds light on a contemporary issue or problem. Section 001 is for initial preparation of the Final Project.

IS 5100 Innovation Studies Seminar: Leading Innovation in 21st Century MN
A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent; Instructor: Harkins, Arthur M
Description: The "state" of Minnesota is subject to multiple definitions and interpretations. Is Minneapolis merely an urban version of Lake Wobegon? Are the Twin Cities a "cold Omaha" or do they surpass it as one of the world's major centers of creativity? What are the strengths, weaknesses, opportunities and threats facing Minnesota's alternative futures as a "state of innovation?" How are these futures influenced by national and global trends and potentials? What are the roles of social, cultural, and psychological "framers" in asking and answering these questions? Explore and discover Minnesota's alternative futures as engines of innovation - or their opposites. Help create definitions and interpretations. Is Minneapolis merely an urban version of Lake Wobegon? Are the Twin Cities a "cold Omaha" or do they surpass it as one of the world's major centers of creativity? What are the strengths, weaknesses, opportunities and threats facing Minnesota's alternative futures as a "state of innovation?" How are these futures influenced by national and global trends and potentials? What are the roles of social, cultural, and psychological "framers" in asking and answering these questions? Explore and discover Minnesota's alternative futures as engines of innovation - or their opposites. Help create definitions and interpretations. Is Minneapolis merely an urban version of Lake Wobegon? Are the Twin Cities a "cold Omaha" or do they surpass it as one of the world's major centers of creativity? What are the strengths, weaknesses, opportunities and threats facing Minnesota's alternative futures as a "state of innovation?" How are these futures influenced by national and global trends and potentials? What are the roles of social, cultural, and psychological "framers" in asking and answering these questions? Explore and discover Minnesota's alternative futures as engines of innovation - or their opposites. Help create definitions and interpretations. Is Minneapolis merely an urban version of Lake Wobegon? Are the Twin Cities a "cold Omaha" or do they surpass it as one of the world's major centers of creativity? What are the strengths, weaknesses, opportunities and threats facing Minnesota's alternative futures as a "state of innovation?" How are these futures influenced by national and global trends and potentials? What are the roles of social, cultural, and psychological "framers" in asking and answering these questions? Explore and discover Minnesota's alternative futures as engines of innovation - or their opposites. Help create definitions and interpretations. Is Minneapolis merely an urban version of Lake Wobegon? Are the Twin Cities a "cold Omaha" or do they surpass it as one of the world's major centers of creativity? What are the strengths, weaknesses, opportunities and threats facing Minnesota's alternative futures as a "state of innovation?" How are these futures influenced by national and global trends and potentials? What are the roles of social, cultural, and psychological "framers" in asking and answering these questions? Explore and discover Minnesota's alternative futures as engines of innovation - or their opposites. Help create definitions and interpretations. Is Minneapolis merely an urban version of Lake Wobegon? Are the Twin Cities a "cold Omaha" or do they surpass it as one of the world's major centers of creativity? What are the strengths, weaknesses, opportunities and threats facing Minnesota's alternative futures as a "state of innovation?" How are these futures influenced by national and global trends and potentials? What are the roles of social, cultural, and psychological "framers" in asking and answering these questions? Explore and discover Minnesota's alternative futures as engines of innovation - or their opposites. Help create definitions and interpretations. Is Minneapolis merely an urban version of Lake Wobegon? Are the Twin Cities a "cold Omaha" or do they surpass it as one of the world's major centers of creativity? What are the strengths, weaknesses, opportunities and threats facing Minnesota's alternative futures as a "state of innovation?" How are these futures influenced by national and global trends and potentials? What are the roles of social, cultural, and psychological "framers" in asking and answering these questions? Explore and discover Minnesota's alternative futures as engines of innovation - or their opposites. Help create definitions and interpretations. Is Minneapolis merely an urban version of Lake Wobegon? Are the Twin Cities a "cold Omaha" or do they surpass it as one of the world's major centers of creativity? What are the strengths, weaknesses, opportunities and threats facing Minnesota's alternative futures as a "state of innovation?" How are these futures influenced by national and global trends and potentials? What are the roles of social, cultural, and psychological "framers" in asking and answering these questions? Explore and discover Minnesota's alternative futures as engines of innovation - or their opposites. Help create definitions and interpretations.

IOFT 1 Fundamentals of Engineering Review (E.I.T. Refresher)
S-N only, 0 credit(s); prereq Bachelor's degree in engineering; Instructor: Nordell, Daniel Edwin
Description: This course is a review of engineering fundamentals required to pass the National Council of Engineering Examiners Fundamentals of Engineering examination. It is designed to aid in preparation for the FE examination by presenting an organized review of material ordinarily contained in a college engineering curriculum. Primary emphasis will be on problem solving with orientation as close as possible to the type of questions contained in the exam. Prerequisite: Engineering or equivalent degree or candidate for degree
Style: 75% Lecture, 25% Discussion.
Grading: 100% successful completion of the FE exam

IOFT 1101 Environmental Issues and Solutions
4 credit(s); prereq High school chemistry or equiv, one yr high school algebra; Meets CLE req of Environment Theme; meets CLE req of Physical Science/Lab Core; Instructor: Hondzo, Miki
Description: This course is designed to engage students in examining the role of sustainability in contemporary society. It will cover some of the key environmental issues and solutions faced by our society today. Students will be introduced to the concept of sustainability and will explore various topics, including climate change, biodiversity, and energy. The course will provide students with an understanding of the scientific concepts and technologies related to environmental sustainability and will encourage critical thinking and problem-solving.
Grading: 100% successful completion of the FE exam

IOFT 1311 Engineering Basics
A-F only, 2 credit(s); Instructor: Imbertson, Paul Jay
Description: This course introduces the student to the fundamentals of engineering and the design process. It covers topics such as problem-solving skills, design thinking, and the role of engineering in society. Students will learn about the engineering profession and the ethical responsibilities that come with it. The course will also cover some basic principles of mathematics and physics relevant to engineering.

IOFT 1312 Exploring Careers in Science and Engineering
2 credit(s); Instructor: Hinz, Katy M
Description: This course introduces students to the world of science and engineering careers. It explores various fields within science and engineering, highlighting real-world applications and career opportunities. Students will have the opportunity to interact with professionals in the field, gaining insights into their work and how they apply science and engineering principles in their daily lives.

Insurance and Risk Management
3-122 Carlson School of Management

INS 4100 Corporate Risk Management
2 credit(s); prereq credit will not be granted if credit received for: 5100;
Instructor: STAFF
Description: Corporate Risk Management is the process of assessing, controlling, financing and monitoring risks to increase value for all stakeholders. Business practices and theory are applied to treat human resource risks, financial risks, property, liability, and workers compensation risks, with risk control and risk financing tools, including insurance. Students learn to serve as consultants applying the risk management process to a live company. Practicing risk managers address the class and assist students in the consulting process.
Style: 70% Lecture, 15% Discussion. 15% Student Presentation.
Grading: 50% quizzes, 30% in-class presentation, 20% class participation. LMS/VISTA participation
Exam Format: multiple choice and short essays

INS 4200 Insurance Theory and Practice
2 credit(s); prereq credit will not be granted if credit received for: 5200;
Instructor: STAFF
Description: Risk theory is applied to practices in liability, property, and workers compensation insurance. Insurance

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
marketing, pricing, underwriting, and claims administration, with adverse selection and moral hazard effects. Public policy issues of tort versus no-fault compensation systems. Self-insurance and integrated risk financing methods. Students learn to serve as consultants applying the insurance practices in a live company. Practicing insurance professionals and faculty address the class.

Style: 70% Lecture, 15% Discussion, 15% Student Presentation.
Grading: 10% special projects, 50% quizzes, 20% class participation, 20% problem solving.
Exam Format: multiple choice and essay.

Inter-College Program
20 Classroom Office Building

ICP 3000 Career Skills in the Professional Environment
2 credit(s); prereq 60 cr;
Instructor: Bonderson,Lori
Description: This course is designed to introduce you to the nuts and bolts of job search strategies, including resume writing, interviewing, working, and the use of technology and the Internet in job seeking.
Grading: 90% written homework. 10% Online participation.

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

ICP 3001W Introduction to Multidisciplinary Studies
A-F only, 3 credit(s); prereq Admitted to ICP Multidisciplinary Studies; Meets CLE req of Writing Intensive;
Instructor: Moon,Karen
Description: This course is designed to help returning students re-acclimate to a university environment, specifically the University of Minnesota, and select a multidisciplinary program of study in the Inter-College Program. Through readings, discussion, and writing, ICP 3001W will invite you to think about your own identity, write an educational autobiography, and create a curriculum to meet your goals. You will learn to view subject matter through a variety of lenses as we read authors from an array of disciplines. Your writings will be self-reflective and will allow you to develop your investigative and evaluative abilities as you consider your future at the University.
Style: 25% Lecture, 30% Discussion, 25% Small Group Activities, 5% Student Presentation, 5% Field Trips, 10% Guest Speakers.
Grading: 60% reports/papers, 20% quizzes, 20% class participation.

ICP 3093 Directed Study
1-15 credit(s), max credits 15, 1 completion allowed; prereq instr consent ;
Instructor: STAFF
Description:

Interdepartmental Study
135 Johnston Hall

ID 1201 Major and Career Exploration
2 credit(s); prereq Fr or soph;
Instructor: Boltz,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 $30 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: LeFay,Lisa
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 $30 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 $30 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: Buckley,Christopher Gene
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 $30 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: Halverson,Joyce A
Description: Are you undecided about which major to choose?

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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 $30 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 weekly.

ID 3201 Career Planning
2 credit(s); Instructor: Unittled PhD,LP,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 weekly.

ID 3201 Career Planning
2 credit(s); Instructor: Holschbach MA, Jesse
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 weekly.

ID 3208 Internship Reflection: Making Meaning of Your Experience
1 credit(s); prereq dept consent; Instructor: Stubblefield, Robin A
Description: Want to make the most of your internship experience? This class will allow you to examine, reflect on, and construct meaning from your internship experience. You will have opportunities to assess your personal and career needs and goals, learn about what it means to be a professional, and operate within professional environments, evaluate your performance and accomplishments as well as get feedback from others and develop a resume that helps to best articulate your knowledge and skills. Grading/Workload: Your performance will be evaluated from multiple perspectives including active and substantive participation in group/online discussions, satisfactory completion of all required assignments, the students? self evaluations, intern supervisor evaluations and instructor evaluations and the successful completion of the hours at their internship site. Assignments consist of reading, journal reflections & reactions, 3-4 papers/projects and other assignments as determined by the instructor. There are no exams in this course. **This is an online course.**

ID 3551 Community Leadership Seminar: Leadership, Ethics, and Community Building in Nonprofits
A-F only, 3 credit(s); prereq Concurrent registration is required (or allowed) in 3552; Instructor: Moore, David F
Description: The Community Leadership Intern Program combines real-work experience at a nonprofit, foundation, or corporate community relations department with classroom learning. You must apply in the fall to be accepted into the program and then interview with at least three potential intern sites. You will then be matched with an intern site in December. The internship will begin the first week of the Spring Semester and last 15 weeks. You will be expected to work 12-15 hours/week. Some examples of intern sites have been The Minneapolis Foundation, TCF Foundation, Habitat for Humanity, YMCA, St. Anna’s, ARC, The National Park Service and many others. The focus of the academic work is on developing ethical leadership skills. The course will also cover community building and professional development. During the class you will have the opportunity to hear from professionals in their field of expertise. The class will also engage is group discussion to reflect on experiences and how they challenge each person to further their knowledge and capacity to make a difference in the community.

Style: 30% Lecture, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 20% Guest Speakers.
Grading: 20% special projects, 20% attendance, 30% reflection paper, 10% in-class presentation, 20% class participation.

ID 3552 Community Leadership Internship: Leadership, Ethics, and Community Building in Nonprofits
A-F only, 3 credit(s); prereq Concurrent registration is required (or allowed) in 3551; Instructor: Moore, David F
Description: Student may contact the instructor or department for information.

ID 3556 Environment and Agriculture: Sustainable Food Systems Internship
A-F only, 2 credit(s); prereq dept consent; Instructor: Holliday, David Wallace
Description: Student may contact the instructor or department for information.

ID 3571 Metro Urban Studies Term: Contested Theories of Poverty, Inequality, and Social Change
4 credit(s); prereq Concurrent registration is required (or allowed) in 3572, 3573, dept consent; Instructor: Holliday, David Wallace
Description: In the Metro Urban Studies Term students activity delve into major challenges of our time: poverty, inequality and social change. Connecting these issues is at the core of the program. Instead of just learning about these problems in the classroom, students actively explore solutions and become engaged in organization committed to social transformation. This program focuses on learning the 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 activity delve into major challenges of our time: poverty, inequality and social change. Connecting these issues is at the core of the program. Instead of just learning about these problems in the classroom, students actively explore solutions and become engaged in organization committed to social transformation. This program focuses on learning the 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 Fraser, 626-2044;
ID 3581 City Arts: Creating Social Change - Art and Culture in Political, Social, Historical Context
4 credit(s); prerequisite 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); prerequisite 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); prerequisite Concurrent enrollment in 3581, 3582, dept consent; contact CCLC, 345 Fraser Hall, 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); prerequisite 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); prerequisite Concurrent registration is required or allowed in 3591, Concurrent registration is required or allowed in 3593, Concurrent registration is required or allowed in 3594, dept consent
Instructor: Holliday, David Wallace
Description: All majors are welcome! Students explore how humans understand environmental sustainability, how current power dynamics and trends towards a global free market impact local efforts to promote sustainability, and how community and social movements are developing alternative visions of environmental sustainability. This course includes both classroom and field work. Concurrent registration in ID 3591, 3593, & 3594 is required. Contact the CCLC (612-626-2044) for more information.

ID 3593 HECUA Off-Campus Study Program in Sustainability: Field Methods Research and Investigation
A-F only, 4 credit(s); prerequisite Concurrent registration is required or allowed in 3591, Concurrent registration is required or allowed in 3592, 3594, dept consent
Instructor: Holliday, David Wallace
Description: All majors are welcome! In this component of the program, students have an opportunity to work with scientists and community members to conduct publishable research. Concurrent registration in ID 3591, 3592, & 3594 is required. Contact the CCLC (612-626-2044) for more information.

ID 3594 HECUA Off-Campus Study Program: Environmental Sustainability: Internship
A-F only, 4 credit(s); prerequisite 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 3595 HECUA Off-Campus Study Program: Environmental Sustainability: Integrative Community Engagement Project Seminar
S-N only, 1 credit(s); prerequisite dept consent, Community Engagement Scholars coordinator approval
Instructor: Siems, Monica Lee
Description: Student may contact the instructor or department for information.

ID 3596 HECUA Off-Campus Study Program: Environmental Sustainability: Integrative Community Engagement Project Seminar
S-N only, 1 credit(s); prerequisite dept consent, Community Engagement Scholars coordinator approval
Instructor: Peacock, Katie
Description: Student may contact the instructor or department for information.
### ISG 8031 Cooperative Learning Practicum

A-F only, 1 credit(s); prereq 8021;
Instructor: Galatowitsch,Susan M
Description: Student may contact the instructor or department for information.

### ISG 8001 Discussions in Introduced Species and Genotypes

S-N only, 1 credit(s); max credits 10, 10 completions allowed;
Instructor: Newman,Raymond M
Description: Student may contact the instructor or department for information.

### ISG 8031 Cooperative Learning Practicum

A-F only, 1 credit(s); prereq 8021;
Instructor: Galatowitsch,Susan M
Description: Student may contact the instructor or department for information.

### ID 3901 Integrative Community Engagement Project Seminar

S-N only, 1 credit(s); prereq dept consent , Community Engagement Scholars coordinator approval;
Instructor: Hirt,Lauri Elizabe
Description: Student may contact the instructor or department for information.

### ID 3901 Integrative Community Engagement Project Seminar

S-N only, 1 credit(s); prereq dept consent , Community Engagement Scholars coordinator approval;
Instructor: Firth,Laurie Elizabe
Description: Student may contact the instructor or department for information.

### ID 3993 Directed Study

1-4 credit(s), max credits 8, 8 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Timmins,Paul
Description: Student may contact the instructor or department for information.

### ID 3993 Directed Study

1-4 credit(s), max credits 8, 8 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Timmins,Paul
Description: Student may contact the instructor or department for information.

### IBUS 3010 International Business Topics

A-F only, 3-4 credit(s), max credits 12, 3 completions allowed; prereq Consent of Carlson International Programs;
Instructor: Spruth,Steve
Description: Student may contact the instructor or department for information.

### IBUS 3021 Human Resource Management and Industrial Relations

3 credit(s); prereq ECON 1101, ECON 1102, PSY 1001;
Instructor: Wanberg,Connie Rae
Description: Student may contact the instructor or department for information.

### IBUS 4082 Brand Management

A-F only, 4 credit(s); prereq MKTG 3001, MKTG 3010, MKTG 3040; Credit will not be granted if credit has been received for: MKTG 4082W;
Instructor: Upton,Kevin John
Description: Student may contact the instructor or department for information.

### International Business

2-210 Carlson School of Management

### Italian

260 Folwell Hall

### ITAL 1001 Beginning Italian

5 credit(s); Credit will not be granted if credit has been received for: ITAL 4001;
Instructor: STAFF
Description: Italian 1001 introduces students to the language and culture of Italy. Class time is spent on presentations of new concepts and on continual use of material already taught. Students work individually, in pairs and in groups. They learn to read, write, speak and understand Italian. They view Italian films. Integral parts of this course will be the online assignments (Quia workbook and laboratory manuals) that students are required to do at home and the cultural reading text Stelle, perle e mistero. By the end of the first semester, students can communicate in a number of real life situations and are becoming comfortable with the present and the past tenses. The grade is based on daily participation and homework performance, frequent quizzes, oral exams, compositions, and the final exam. Students who pass 1001 with a grade of +C-“ or higher can then move on to Italian 1002.
Grading: 15% final exam, 65% quizzes, 5% class participation, 15% other evaluation. oral presentations
Exam Format: Fill in the blank; true/false; essay; short answer

### ITAL 1002 Beginning Italian

5 credit(s); prereq 1001 or instr consent; Credit will not be granted if credit has been received for: ITAL 4002;
Instructor: STAFF
Description: Italian 1002 is the second semester of beginning Italian: students must have completed Italian 1001 with a grade of “C-“ or better in order to take Italian 1002. Italian 1002 introduces students to the language and culture of Italy. Class time is spent on presentations of new concepts and on continual use of material already taught. Students work individually, in pairs and in groups. They learn to read, write, speak and understand Italian. They view Italian films. Integral parts of this course will be the online assignments (Quia workbook and laboratory manuals) that students are required to do at home and the cultural reading text Stelle, perle e mistero. By the end of the second semester, students can communicate in a number of real life situations and are becoming comfortable with the present and the past tenses. Students who pass 1002 with a grade of “C-“ or higher can then move on to Italian 1003.
Grading: 15% final exam, 65% quizzes, 5% class participation, 15% other evaluation. oral presentations
Exam Format: Short answer; fill in the blank, true/false

### Italian Folwell Hall

### ITAL 1003 Intermediate Italian

5 credit(s); prereq 1001-1002; Credit will not be granted if credit has been received for: ITAL 4003;
Instructor: STAFF
Description: Italian 1003 is the third semester course of Italian language and culture. (Students must have completed the equivalent of a year of university level Italian instruction before taking this course.) Students concentrate on mastering elements of grammar and on increasing their active vocabularies. They continue to read, write, speak and listen to current Italian. Each student chooses a topic for a cultural presentation, which is both oral and written. Italian films are integrated into the program. An integral part of this course is reading the text, Pinocchio. The grade is based on daily participation and homework performance, frequent quizzes, oral exams, compositions, cultural presentation and the final exam. At the end of the third semester, students who pass with a grade of “C-“ or higher are ready to move on to Italian 1004 or to study in Italy.
Grading: 10% final exam, 70% quizzes, 5% class participation,
ITAL 1004 Intermediate Italian
5 credit(s); prereq 1001, 1002, 1003; Credit will not be granted if credit has been received for: ITAL 4004; Instructor: STAFF
Description: Italian 1004 is the fourth semester course of Italian language and culture. (Students must have completed the equivalent of one and a half years of university level Italian instruction before taking this course.) Having learned all the basic grammar concepts students now concentrate on mastering these elements and on increasing their active vocabularies. They continue to read, write, speak and listen to Italian. Each student chooses a topic for a cultural presentation, which is both written and spoken. Italian films are integrated into the program. At the end of the fourth semester, students who pass with a grade of "C" or higher are ready to move on to Italian 3015 or to study in Italy.
Grading: 10% final exam, 70% quizzes, 5% class participation, 15% other evaluation. oral exam
Exam Format: essay, short answer, fill-in-blank, true/false, various presentations

ITAL 3015 Reading, Conversation, and Composition
4 credit(s); prereq 1004; Instructor: Dradi Bower, Carlotta
Description: Student may contact the instructor or department for information.

ITAL 3305 Staging the Self: Theater and Drama in Modern Italy
4 credit(s), max credits 16, 4 completions allowed; prereq 3015; Credit will not be granted if credit has been received for: ITAL 5305; Instructor: STAFF
Description: Theatrical representations of the self in modern Italy. Particular attention is given to issues of identity, gender, and class in theatrical works ranging from Alfieri's Mirra, Pirandello's Enrico IV to Dacia Maraini's Clytemnestra.

ITAL 3459W Senior Project
1 credit(s); Meets CLE req of Writing Intensive; Instructor: Ferlito, Susanna Florenc
Description: Student may contact the instructor or department for information.

ITAL 3640 Topics in Italian Studies: The Italian Exiles
4 credit(s), max credits 16, 4 completions allowed; Instructor: Ferlito, Susanna Florenc
Description: In this course we will be examining the topic of exile in 19th and 20th century Italy. We will keep in mind a history of exiled individuals and gender differences between experiences of exile. We will keep a history of famous cases of exile in mind begin with the murderess Adelaide Borgomanero who in the 1300s who was exiled to Como and the witches of Sicily? who were exiled in the 1630s because caught talking to fairies. During the 19th century we will examine the political option of exile and the forms it takes during fascism and the contemporary period (for example, Toni Negri). Our readings and discussions will examine the experiences of exile as it is shaped by questions of politics, social class, religion, and gender and we will explore how feelings about and experiences of exotic get represented through letters, diaries, biographies, novels, journalistic accounts, court-cases. We will also think about the choices available to exiles of where to settle as well as their emotional responses to and experience of travel and living in foreign lands. Among other texts considered: Dacia Maraini Anno 1424, Cristina Trulizio di Belgioioso Ricordi nell'esilio, as well as texts by Baron Poerio, Settembrini, Manzoni, Moravia (Il conformista). This course will be conducted in Italian.
Style: 40% Lecture, 30% Discussion, 20% Small Group Activities, 10% Guest Speakers.

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 4970 Directed Readings
1-4 credit(s), max credits 16, 4 completions allowed; prereq instr consent; Instructor: STAFF
Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up listing contact hours, number of credits, written and other work required.

ITAL 5305 Staging the Self: Theater and Drama in Modern Italy
4 credit(s), max credits 16, 4 completions allowed; prereq grad student or instr consent; Credit will not be granted if credit has been received for: ITAL 3305; Instructor: Ferlito, Susanna Florenc
Description: Staging the Female Self: a Cultural History of Female Posing?. In this course we will examine the theme of posing and the self? by examining the biographies and writings of nineteenth-century women who posed both off and on stage. Among the women investigated we will discuss the countess Virginia Oldoini ?La Castiglione? (1837-1899) who was a ?secret agent?, a courtesan, and figures in the history of photography as an important model for the photographer Pierre Louis Pierson. Also Eleonora Duse 1858-1924 actress and lover of D?Annunzio and the poet Sibilla Aleramo and Adelaide Ristori 1822-1906, famous Italian actress who had her American debut in New York (as Medea) 1866, and wrote Studies and Memoirs (1888) in which she talks about the psychology of characters such as Medea, and Alfieri?sa Mirra. Our approach will be interdisciplinary examining cultural perceptions of beauty, intelligence, passion, hysteria, and gendered ways of posing? through portraiture, photography, theater, music and literature. This course will be conducted in Italian.
Style: 40% Lecture, 30% Discussion, 20% Small Group Activities, 10% Guest Speakers.
Grading: 30% mid exam, 40% final exam, 10% journal, 20% in-class presentation.

ITAL 5640 Topics in Italian Studies
3 credit(s), max credits 12, 4 completions allowed; prereq Ita 3015; Instructor: Ferlito, Susanna Florenc
Description: In this course we will be examining the topic of exile in 19th and 20th century Italy. We will keep in mind a history of exiled individuals and gender differences between experiences of exile. We will keep a history of famous cases of exile in mind begin with the murderess Adelaide Borgomanero who in the 1300s who was exiled to Como and the ?witches of Sicily? who were exiled in the 1630s because caught talking to fairies. During the 19th century we will examine the political option of exile and the form it takes during fascism and the contemporary period (for example, Toni Negri). Our readings and discussions will examine the experience of exile as it is shaped by questions of politics, social class, religion, and gender and we will explore how feelings about and experiences of exile get represented through letters, diaries, biographies, novels, journalistic accounts, court-cases. We will also think about the choices available to exiles of where to settle as well as their emotional responses to and experience of travel and living in foreign lands. Among other texts considered: Dacia Maraini Anno 1424, Cristina Trulizio di Belgioioso Ricordi nell’esilio, as well as texts by Baron Poerio, Settembrini, Manzoni, Moravia (Il conformista). This course will be conducted in Italian.
Style: 40% Lecture, 30% Discussion, 20% Small Group Activities, 10% Guest Speakers.

ITAL 5970 Directed Readings
1-4 credit(s), max credits 16, 4 completions allowed; prereq instr consent; Instructor: STAFF
Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up listing contact hours, number of credits, written and other work required.
JPN 1012 Beginning Japanese
6 credit(s); prereq 1011; Credit will not be granted if credit has been received for: JPN 4002;
Instructor: Tazawa, Kenichi
Description: This course is the second of a two-semester sequence of Beginning Japanese. It aims to develop communication skills in Japanese. Therefore, students will continue learning the four skills of language (speaking, listening, reading, and writing) as well as culture-specific skills (dos and don'ts). The items that will be covered in this semester include but are not limited to: 1. Describing appearance, 2. Reporting, 3. Giving an opinion or advice, 4. Describing a plan, intention, or desire, and 5. Making comparisons. The course will cover Lessons 7 through 12 of Genki (Refer to COURSE MATERIALS below), including both dialogue/grammar and of reading/writing. It is expected that, by the end of this semester, students will be able to use the above functions to talk about family and friends, describe health concerns, and so on. Students also will be able to read and write short paragraphs, such as a letter or a report.
To facilitate literacy, students will learn 87 kanji or Chinese characters (a total of 145 for JPN1011-1012).

JPN 3022 Intermediate Japanese
5 credit(s); prereq 3021 or instr consent; Credit will not be granted if credit has been received for: JPN 4004;
Instructor: Emmett, Keiko
Description: This course is the second of a two-semester sequence of Intermediate Japanese. The course will cover Lessons 18 through 22 of Genki, both sections of dialogue/grammar and of reading/writing. The course aims to develop the four communication skills (speaking, listening, reading, and writing) on the intermediate level, as well as culture-specific skills (do's and don't's). The items that will be covered in this term include, but are not limited to: 1. Describing the condition of an occurrence, 2. Speaking respectfully, 3. Explaining what you do not know, 4. Talking about bad experiences or events, and 5. Giving orders. It is expected that, by the end of this semester, students will be able to use the above functions to participate in formal, professional conversation. Students also will read/write short stories, expository writings, and formal letters. 78 kanji characters will be introduced in addition to the 224 characters learned in the previous lessons.
Style: 40% Lecture, 60% Discussion.
Grading: 6% special projects, 15% quizzes, 25% written homework, 40% additional semester exams, 5% attendance, 1% in-class presentation, 8% other evaluation. There are no mid and final exams. "Additional Semester Exams" consist of 5 chapter exams (written) and 2 oral exams.
Exam Format: Five written exams (multiple-choice, filling-in the blank, short-answer) and two 10-minute oral exams

JPN 3032 Third-Year Japanese
4 credit(s); prereq 3031 or instr consent;
Instructor: Tazawa, Kenichi
Description: This course is the second of a two-semester sequence of Third-year Japanese. The course will cover Lessons 8, 9, 11, 12, and 13 of An Integrated Approach to Intermediate Japanese. The course aims to develop the four communication skills (speaking, listening, reading, and writing) on the intermediate-high level as well as strategies of carrying on a conversation. The items that will be covered in this semester include, but are not limited to: 1. Looking for a job, 2. Giving and receiving, 3. Complaining and apologizing, 4. Describing health conditions, and 5. Narrating. Students will read short essays and pieces of expository writing as well as excerpts from authentic materials (i.e., materials written for native speakers of Japanese). In terms of kanji, there are 89 characters that the students are expected to be able to write in addition to the 367 characters learned in the lower courses. In addition, there are approximately 145 characters meant for recognition only.

JPN 3032 Third-Year Japanese
4 credit(s); prereq 3031 or instr consent;
Instructor: Buchanan, Michiko Todokoro
Description: Student may contact the instructor or department for information.

JPN 3993 Directed Studies
1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent , dept consent , college consent ;
Instructor: Anderson, Mark
Description: Student may contact the instructor or department for information.

JPN 3993 Directed Studies
1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent , dept consent , college consent ;
Instructor: Isaka, Maki
Description: Student may contact the instructor or department for information.

JPN 3993 Directed Studies
1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent , dept consent , college consent ;
Instructor: Marran, Christine L
Description: Student may contact the instructor or department for information.

JPN 4002 Beginning Japanese
3 credit(s); prereq 4001, grad student; Credit will not be granted if credit has been received for: JPN 1012;
Instructor: Tazawa, Kenichi
Description: This course is the second of a two-semester sequence of Beginning Japanese. It aims to develop communication skills in Japanese. Therefore, students will continue learning the four skills of language (speaking, listening, reading, and writing) as well as culture-specific skills (dos and don'ts). The items that will be covered in this semester include but are not limited to: 1. Describing appearance, 2. Reporting, 3. Giving an opinion or advice, 4. Describing a plan, intention, or desire, and 5. Making comparisons. The course will cover Lessons 7 through 12 of Genki (Refer to COURSE MATERIALS below), including both dialogue/grammar and of reading/writing. It is expected that, by the end of this semester, students will be able to use the above functions to talk about family and friends, describe health concerns, and so on. Students also will be able to read and write short paragraphs, such as a letter or a report.
To facilitate literacy, students will learn 87 kanji or Chinese characters (a total of 145 for JPN1011-1012).

JPN 4004 Intermediate Japanese
3 credit(s); prereq 4003, grad student; Credit will not be granted if credit has been received for: JPN 3022;
Instructor: Emmett, Keiko
Description: This course is the second of a two-semester sequence of Intermediate Japanese. The course will cover Lessons 18 through 22 of Genki, both sections of dialogue/grammar and of reading/writing. The course aims to develop the four communication skills (speaking, listening, reading, and writing) on the intermediate level, as well as culture-specific skills (do's and don'ts). The items that will be covered in this term include, but are not limited to: 1. Describing the condition of an occurrence, 2. Speaking respectfully, 3. Explaining what you do not know, 4. Talking about bad experiences or events, and 5. Giving orders. It is expected that, by the end of this semester, students will be able to use the above functions to participate in formal, professional communication. Students also will read/write short stories, expository writings, and formal letters. 78 kanji characters will be introduced in addition to the 224 characters learned in the previous lessons.
Style: 40% Lecture, 60% Discussion.
Grading: 6% special projects, 15% quizzes, 25% written homework, 40% additional semester exams, 5% attendance, 1% in-class presentation, 8% other evaluation. There are no mid and final exams. "Additional Semester Exams" consist of 5 chapter exams (written) and 2 oral exams.
Exam Format: Five written exams (multiple-choice, filling-in the blank, short-answer) and two 10-minute oral exams
JPN 4006 Third Year Japanese
3 credit(s); prereq 4005, grad student; Credit will not be granted if credit has been received for: JPN 4005;
Instructor: Tazawa, Kenichi
Description: This course is the second of a two-semester sequence of Third-year Japanese. The course will cover Lessons 8, 9, 11, 12, and 13 of An Integrated Approach to Intermediate Japanese (Refer to COURSE MATERIALS on the next page). The course aims to develop the four communication skills (speaking, listening, reading, and writing) on the intermediate-high level as well as strategies of carrying on a conversation. The items that will be covered in this semester include, but are not limited to: 1. Looking for a job, 2. Giving and receiving, 3. Complaining and apologizing, 4. Describing health conditions, and 5. Narrating. Students will read short essays and pieces of expository writing as well as excerpts from authentic materials (i.e., materials written for native speakers of Japanese). In terms of kanji, there are 89 characters that the students are expected to be able to write in addition to the 367 characters learned in the lower courses. In addition, there are approximately 145 characters meant for recognition only.

JPN 4006 Third Year Japanese
3 credit(s); prereq 4005, grad student; Credit will not be granted if credit has been received for: JPN 4005;
Instructor: Buchanan, Michiko Todokoro
Description: This course is the second course of a two-semester sequence of the Fourth-Year Japanese. This course aims to improve effective communication skills in speaking, listening, reading, and writing in academic settings. This course involves interviews, class presentations, discussions, as well as reading texts. The course also aims to deepen the understanding of modern Japanese society and culture and to help students to be able to talk about their own society and culture in Japanese. Effective learning strategies will be introduced and implemented to help students become independent learners of Japanese. This course will cover Theme 1, 4 and 5 of ‘Image of Japan’
Style: 100% Discussion.
Grading: 12% mid exam, 13% final exam, 7% reports/papers, 9% special projects, 17% quizzes, 20% written homework, 8% attendance, 6% class participation, 8% laboratory evaluation.

JPN 5040 Readings in Japanese Texts
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq 4042 or equiv or instr consent;
Instructor: Marran, Christine L
Description: In this course, students read various Japanese-language fictional and theoretical texts. In the Spring of 2010, we will read texts particularly related to ecocriticism and environmentalism.
Style: 100% Discussion.
Grading: 100% class participation.

JPN 5993 Directed Studies in Japanese
1-15 credit(s), max credits 15, 1 completion allowed; prereq instr consent, dept consent, college consent;
Instructor: Anderson, Mark
Description: Student may contact the instructor or department for information.

JPN 5993 Directed Studies in Japanese
1-15 credit(s), max credits 15, 1 completion allowed; prereq instr consent, dept consent, college consent;
Instructor: Isaka, Maki
Description: Student may contact the instructor or department for information.

JWST 1201 The Bible: Context and Interpretation
3 credit(s); Credit will not be granted if credit has been received for: RELS 3201; Meets CLE req of Literature Core;
Instructor: Levinson, PhD, Bernard M
Description: The course attempts to get behind the overlay imposed by modern culture upon the Old Testament/Hebrew Bible and to read it on its own terms. In order to do so, students will explore the fascinating literature and religion of the ancient Near East. We will read texts from ancient Mesopotamia, Canaan (Ugarit), and Israel, and discuss both the ideas found in them and their literary artistry. After investigating the literature of Israel's neighbors, we will read biblical literature in dialogue with these stories, intellectually analyzing the narratives of the world, the origin of life, the great flood story, the idea of divine revelation, and the significance of law. Specific topics to be dealt with include: God, creation, fate, the point of human life, and the meaning of history. The course teaches students how to read closely and to think critically about the meaning of a text. Students will be asked to read primary sources for specific questions of content and meaning, frequently with the help of assignment sheets, and to learn a methodology for deciding between right and wrong answers. The skills thereby learned will assist students with any other course in the Liberal Arts. The assumptions of the course are academic and secular, as required by the First Amendment. Consequently, the course does not address personal religious belief or matters of faith. All texts and all religious traditions will be examined analytically. Students are expected to understand and master this approach, which includes questioning conventional cultural assumptions about the historical composition and authorship of the Bible. Willingness to ask such questions and openness to new ways of thinking and reading are essential to successful participation in the course.
Style: 90% Lecture, 10% Discussion.
Grading: 20% mid exam, 25% final exam, 30% reports/papers, 5% written homework, 20% additional semester exams. Regular very short homework assignments are collected; best 10 out of 12 are counted. There will be two mid-term exams each worth 20%. There will be two short papers each worth 15%.
Exam Format: Each exam is 50% essay and 50% multiple choice.

JWST 3112 Jewish Mysticism, Magic, and Kabbalah
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: JWST 5112;
Instructor: Jassen, Alex P
Description: This course is designed to provide an introduction to the mystical and magical tradition in Judaism. We treat the origins of mysticism in the Bible and ancient Judaism, the flowering of mysticism in the medieval period, the origins and development of the Kabbalah, and modern forms of mysticism, such as Hasidism. We also explore the intersection of the mystical tradition with magical phenomena and messianic movements. Topics that will be discussed include prophecy and visionary activity, mystical approaches to secret knowledge, traditions of heavenly ascent, magical techniques, Kabbalistic ideas of divine knowledge and emanation, the origins of evil, the erotic dimension in Kabbalah, and the diffusion of Kabbalah in popular American culture. Throughout, students engage with the
Jewish mystical and magical tradition through close reading and discussion of the central primary mystical and magical texts of Judaism.

Style: 75% Lecture, 25% Discussion.

JWST 3201 The Bible: Context and Interpretation

3 credit(s); Credit will not be granted if credit has been received for: RELS 3201; Meets CLE req of Literature Core;
Instructor: Levinson PhD.Bernard M
Description: The course attempts to get behind the overlay imposed by modern culture upon the Old Testament/Hebrew Bible and to read it on its own terms. In order to do so, students will explore the fascinating literature and religion of the ancient Near East. We will read texts from ancient Mesopotamia, Canaan (Ugarit), and Israel, and discuss both the ideas found in them and their literary artistry. After investigating the literature of Israel's neighbors, we will read biblical literature in dialogue with these stories, intellectually analyzing the narratives of the creation of the world, the origin of life, the great flood story, the idea of divine revelation, and the significance of law. Specific topics to be dealt with include: God, creation, fate, the point of human life, and the meaning of history. The course teaches students how to read closely and to think critically about the meaning of a text. Students will be asked to read primary sources for specific questions of content and meaning, frequently with the help of assignment sheets, and to learn a methodology for deciding between right and wrong answers. The skills thereby learned will assist students with any other course in the Liberal Arts. The assumptions of the course are academic and secular, as required by the First Amendment. Consequently, the course does not address personal religious belief or matters of faith. All texts and all religious traditions will be examined analytically. Students are expected to understand and master this approach, which includes questioning conventional cultural assumptions about the historical composition and authorship of the Bible. Willingness to ask such questions and openness to new ways of thinking and reading are essential to successful participation in the course.

Style: 90% Lecture, 10% Discussion.

Grading: 20% mid exam, 25% final exam, 30% reports/papers, 5% written homework, 20% additional semester exams. Regular very short homework assignments are collected; best 10 out of 12 are counted. There will be two mid-term exams each worth 20%.There will be two short papers each worth 15%.

Exam Format: Each exam is 50% essay and 50% multiple choice.

JWST 3521W History of the Holocaust

3 credit(s); Credit will not be granted if credit has been received for: RELS 3521W; Meets CLE req of Historical Perspective Core; meets CLE req of Writing Intensive;
Instructor: Snyder,Edward N
Description: Student may contact the instructor or department for information.

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: Prell,Riv-Ellen

Description:

JWST 3900 Topics: Jewish Studies

A-F only, 3 credit(s), max credits 15, 5 completions allowed;
Instructor: Katz,Judith
Description: Tony Kushner's epic play, Angels In America, took the politics of the North American AIDS epidemic head on. All of his work, including essays as well as plays such as Caroline or Change; Homebody/Kabul; and even his translation of the Yiddish classic, The Dybbuk, examines issues of class, race, and homophobia. All of Tony Kushner's work advocates strongly for social justice and social change. This course aims to examine Kushner's writing in both a historical and artistic context. To this end we will explore work by writers who came before him, including James Baldwin, Lorraine Hansberry, Arthur Miller, Megan Terry, and Larry Kramer as well as his contemporaries, such as Anna Deavere Smith, Paula Vogel, and Susan Lori Parks, as well as the work of Kushner himself.

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

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

JWST 3900 Topics: Jewish Studies: Headscarves/Yarmulkes: French Secularism Today

A-F only, 3 credit(s), max credits 15, 5 completions allowed;
Instructor: chaouat.bruno

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

JWST 3900 Topics: Jewish Studies

A-F only, 3 credit(s), max credits 15, 5 completions allowed;
Instructor: Jassen,Alex P

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

JWST 4001W Final Project, Writing Intensive

A-F only, 1 credit(s); prereq concurrent enrollment 5xxx, JwSt major, permission of dir of undergrad studies; Meets CLE req of Writing Intensive;
Instructor: STAFF

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

JWST 5112 Jewish Mysticism, Magic, and Kabbalah

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: JWST 3112;
Instructor: Jassen,Alex P

Description: his course is designed to provide an introduction to the mystical and magical tradition in Judaism. We treat the origins of mysticism in the Bible and ancient Judaism, the flowering of mysticism in the medieval period, the origins and development of the Kabbalah, and modern forms of mysticism, such as Hasidism. We also explore the intersection of the mystical tradition with magical phenomena and messianic movements. Topics that will be discussed include prophecy and visionary activity, mystical approaches to secret knowledge, traditions of heavenly ascent, magical techniques, Kabbalistic ideas of divine knowledge and emanation, the origins of evil, the erotic dimension in Kabbalah, and the diffusion of Kabbalah in popular American culture. Throughout, students engage with the Jewish mystical and magical tradition through close reading and discussion of the central primary mystical and magical texts of Judaism.

Style: 75% Lecture, 25% Discussion.

JWST 5900 Topics in Jewish Studies: The Holocaust in France: Testimony/Fiction/Theory

3-4 credit(s), max credits 8;
Instructor: chaouat.bruno

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

JWST 5992 Directed Readings

1-12 credit(s), max credits 12, 1 completion allowed; prereq instr consent;
Instructor: STAFF

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

Journalism and Mass Communication

111 Murphy Hall

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: Williams,Jennifer Lisa

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Student may contact the instructor or department for information.

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: Hansen,Kathleen Ann
Description: Historical, economic, political, legal, ethical, and social aspects of mass communication. Changing media environment of books, magazines, newspapers, records, movies, radio, television, and the Internet in global context. Review of the various media industries and issues faced by mass communications professionals
Style: 66% Lecture, 33% Discussion.
Grading: 12% mid exam, 12% final exam, 10% reports/papers, 20% quizzes, 12% additional semester exams, 33% class participation.

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: Reed,Sada Jean
Description: Historical, economic, political, legal, ethical, and social aspects of mass communication. Changing media environment of books, magazines, newspapers, records, movies, radio, television, and the Internet in global context. Review of the various media industries and issues faced by mass communications professionals
Style: 66% Lecture, 33% Discussion.
Grading: 12% mid exam, 12% final exam, 10% reports/papers, 20% quizzes, 12% additional semester exams, 33% class participation.

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

JOUR 1001H Honors: Introduction to Mass Communication
A-F only, 3 credit(s); prereq Honors, [pre-jour or non-jour major]; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Squires,Catherine R
Description: Student may contact the instructor or department for information.

JOUR 3004W Information for Mass Communication
A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major; prereqs do not apply to IDL sections; Meets CLE req of Writing Intensive;
Instructor: Roberts,Edenborg,Katherine Erin
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fee and financial aid information. This course introduces the concept of the information strategy as it applies to mass communication. The strategies, techniques, and resources discussed will apply to any type of mass communication message production; they will also apply to academic work, such as term paper and project production. We are most concerned with the process of information gathering, evaluation and use. A case study format will be used to study this process in depth throughout the course.
Style: 100% Web Based.
Grading: -- 1 self-introduction (1%) -- 20 learning objects (25%) -- 13 online text chats (9%) -- 20 post-tests (25%) -- 5 written assignments (21%) -- 1 final project (19%)
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: Thompson, Melissa Emily
Description: Student may contact the instructor or department for information.

JOUR 3102 Convergence Journalism
A-F only, 3 credit(s); prereq [3004W or 3004V or Concurrent registration is required (or allowed) in 3004W or 3004V], [3101 or 3101H or Concurrent registration is required (or allowed) in 3001 or Concurrent registration is required (or allowed) in 3101H], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Broekart, Jerry
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 or 3101H], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Ison, Christopher John
Description: This is a class tailored to undergraduate journalism majors in the news/editorial sequence. Students will learn how to report on the people, events and institutions that make up the most fundamental news beats in any newspaper. 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 or 3101H], [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 or 3101H], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Coleman, Nick
Description: Student may contact the instructor or department for information.

JOUR 3155 Publications Editing
A-F only, 3 credit(s); prereq [3004W or 3004V, 3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: McKenzie, Sarah Lynn
Description: Student may contact the instructor or department for information.

JOUR 3173W Magazine Writing
A-F only, 3 credit(s); prereq [3004W or 3304V, 3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major]; prereq's do not apply to IDL sections; Meets CLE req of Writing Intensive;
Instructor: Froiland, Paul V
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fee and financial aid policies. This course will teach you the concepts and skills of writing for magazines. You 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, you will then learn how to market, develop, and write the most common types of magazine stories. In the end, you will have some experience pitching a story to a publication, giving them the first step into that marketplace. More than 18,000 magazines are published in the United States today, and each year hundreds of new magazine publications are launched, including online and custom publications. No matter the platform, good writing remains the core skill those publications demand. In this course, you will learn how to write for magazines. You will learn it by doing it. Writing is the core of the course. You will report and write five typical magazine assignments during the semester, most short and some longer. Through those writing assignments, as well as class discussions and analysis assignments, you will learn how to identify a magazine’s target audience, to develop a tone appropriate to that niche and to generate stories that appeal to its demographics. You will learn what magazine editors want from freelancers, no matter the publication. By the end of the course, you will have developed and pitched at least one story idea to a published magazine. Expected Competencies—The basic concepts of fact-based reporting, attribution, and sourcing.--An understanding of AP style.--The basic concepts of clear writing. For more information, please see the downloadable syllabus.
Style: 100% Web Based.
Grading: See downloadable syllabus for complete grading information.

JOUR 3173W Magazine Writing
A-F only, 3 credit(s); prereq [3004W or 3304V, 3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major]; prereq's do not apply to IDL sections; Meets CLE req of Writing Intensive;
Instructor: Rosengren, John
Description: Student may contact the instructor or department for information.

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 major or design comm premajor];
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 most common types of magazine stories. In the end, students will have some experience pitching a story to a publication, giving them the first step into that marketplace. Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.
Grading: 10% special projects, 70% written homework, 20% class participation.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
JOUR 3201 Principles of Strategic Communication: Advertising
A-F only, 3 credit(s); prereq [3004V or Concurrent registration is required (or allowed) in 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: Depue, Jacob Bjorn
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: Lee, Hyung Min
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: Lamare, PhD, Heather Lyn
Description: Student may contact the instructor or department for information.

JOUR 3241 Creative Strategy and Copywriting
A-F only, 3 credit(s); prereq [3004V or 3004V, 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.
Exam Format: no standard format.

JOUR 3251 Strategic Communication Research
A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Doyle, Kenneth Owen
Description: This section of JOUR 3251 brings together all the standard elements of Strategic Communication Research -- interviews, focus groups, and surveys -- but with heavy emphasis on using them in real-life applications. Roughly the first half of the course will emphasize "book learning," so you have the tools and techniques to go on to the second half. The second half will emphasize applying what you've learned, first in a group project, then in an individual project. Both the group project and the individual project will focus on integrating quantitative and qualitative primary and secondary research to discover the psychological consumer and brand insights that form the core of the most powerful advertising and public relations campaigns.
Style: 40% Lecture, 10% Discussion. Doing real-life strategic communication research projects.
Grading: 25% mid exam. Group Project 25%, Individual Project 50%.
Exam Format: Matching, and short essay: define, compare/contrast/etc.

JOUR 3251 Strategic Communication Research
A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Cho, Soyoen
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 [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major] or [professional jour track, instr consent];
Meets CLE req of Writing Intensive;
Instructor: Swenson, Rebecca Dean Bolin
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 [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major] or [professional jour track, instr consent];
Meets CLE req of Writing Intensive;
Instructor: Therkelsen, David Jon
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 [3004W or 3004V], [3159 or 3201 or 3202], [jour major or approved IDIM major or ICP major or BIS major] or [professional jour track, instr consent];
Meets CLE req of Writing Intensive;
Instructor: Keiser, Eva Eileen
Description: Student may contact the instructor or department for information.

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: Johnson, Jennifer M
Description: This lab-based course gives students an introduction to the basic principles of graphic design. Students are challenged to develop their own aesthetic sense and graphic design skills through the study and creation of effective communication tools. Students are expected to work through study guides in class and on their own to develop software technology skills necessary to complete assignments. Hands-on projects give students the opportunity to develop their skills in designing and producing traditional print publications and new media.
Style: 10% Lecture, 10% Discussion, 80% Laboratory. Project-based course - 5 projects plus software tutorials.
Grading: 16% mid exam, 80% special projects, 4% class participation.
Exam Format: multiple choice.

JOUR 3321 Basic Media Graphics
A-F only, 3 credit(s); 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: Keiser, Eva Eileen
Description: Student may contact the instructor or department for information.

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: West, Arlene K
Description: Student may contact the instructor or department for information.

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

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 [3004V or 3004V], [3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Benson,Dana Richard
Description: Student may contact the instructor or department for information.

JOUR 3451 Electronic News Writing and Reporting
A-F only, 3 credit(s); prereq [3004V or 3004V], [3101 or 3101H], [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Broeckert,Jerry
Description: Student may contact the instructor or department for information.

JOUR 3551 Economics of New Media
A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval];
Instructor: Sullivan,Dan
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 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 Cultural Diversity Theme; 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, and to what end popular 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, 10% Film/Video, 20% Discussion, 30% Small Group Activities. Analysis of media, projects, and presentations
Grading: 10% final exam, 40% special projects, 50% quizzes.
Exam Format: multiple choice

JOUR 3771 Mass Media Ethics: Moral Reasoning and Case Studies
A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval];
Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Kirtley,Jane E
Description: Student may contact the instructor or department for information.

JOUR 3776 Mass Communication Law
A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major or instr consent ;
Instructor: File,Patrick C.
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 completions allowed;
prereq [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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent;
Instructor: Sullivan,Dan
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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Ison, Christopher John
Description: Student may contact the instructor or department
for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Pedelty, Mark Holmes
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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Dell'Orto, Giovanna
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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Faber, Ronald J
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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Schwartz, Dona
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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Tim, Albert 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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Wackman, Daniel Bruce
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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Hansen, Kathleen Ann
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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Leighton, Gordon
Description: Student may contact the instructor or department
for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Golden, Gayle Celeste
Description: Student may contact the instructor or department
for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions 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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Southwell, Brian G
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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Eighmey, 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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Schwitzer, Gary 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 completions 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 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Squires, Catherine R
Description: Student may contact the instructor or department
for information.

JOUR 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [jour major or jour minor or approved IDIM major or
ICP major or BIS major], instr consent, dept consent, college
consent;
Instructor: Pedelty, Mark Holmes
Description: Student may contact the instructor or department
for information.
JOUR 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [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 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Kaiser,Kent Luther
Description: Student may contact the instructor or department for information.

JOUR 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Leighton,Gordon
Description: A course in strategic communications management with the objective of enabling students to develop their abilities in brand communication, issue identification, research, analysis, strategy development, and tactical campaign implementation -- as well as development of presentation skills to convey those abilities. This course is highly oriented toward implementing and managing professional communication campaigns using a case study perspective.
Style: 30% Lecture. 60% Discussion. Student presentations
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% special projects.
Exam Format: multiple choice, T/F, short answer

JOUR 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Kucharski,Matthew John
Description: A comprehensive review of current and classic case studies in strategic communications planning and thinking. Covers a wide range of communications disciplines, scenarios and industries.

JOUR 4259 Cases in Strategic Planning and Thinking
A-F only, 3 credit(s); prereq [3004W or 3004V], [3159 or 3201 or 3202], 3251, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Reid,Victoria Jane
Description: Student may contact the instructor or department for information.

JOUR 4263 Strategic Communication Campaigns
A-F only, 4 credit(s); prereq [3004W or 3004V], [3201 or 3202], 3201, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Krejci,David Allan
Description: Student may contact the instructor or department for information.

JOUR 4263 Strategic Communication Campaigns
A-F only, 4 credit(s); prereq [3004W or 3004V], [3201 or 3202], 321, [3179 or 3241 or 3279 or 4159 or 4259 or 4261], MKTG 3001, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Weitz,Carol Ruth
Description: An in-depth look at all aspects of strategic campaign development, culminating in the development of a strategically sound communications campaign. Emphasis on "real life" examples of campaigns, their creation and development. All essentials of developing strategic communication campaigns are covered, including advertising strategy and positioning, developing creative, consumer research, planning and setting objectives, media strategies, public relations programs, promotion, and targeting and segmentation. Course involves team work, multi-media presentations and class discussion.

JOUR 4263 Strategic Communication Campaigns
A-F only, 4 credit(s); prereq [3004W or 3004V], [3201 or 3202], 321, [3179 or 3241 or 3279 or 4159 or 4259 or 4261], MKTG 3001, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Weitz,Carol Ruth
Description: An in-depth look at all aspects of strategic campaign development, culminating in the development of a strategically sound communications campaign. Emphasis on "real life" examples of campaigns, their creation and development. All essentials of developing strategic communication campaigns are covered, including advertising strategy and positioning, developing creative, consumer research, planning and setting objectives, media strategies, public relations programs, promotion, and targeting and segmentation. Course involves team work, multi-media presentations and class discussion.

JOUR 4263 Strategic Communication Campaigns
A-F only, 4 credit(s); prereq [3004W or 3004V], [3201 or 3202], 321, [3179 or 3241 or 3279 or 4159 or 4259 or 4261], MKTG 3001, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Weitz,Carol Ruth
Description: An in-depth look at all aspects of strategic campaign development, culminating in the development of a strategically sound communications campaign. Emphasis on "real life" examples of campaigns, their creation and development. All essentials of developing strategic communication campaigns are covered, including advertising strategy and positioning, developing creative, consumer research, planning and setting objectives, media strategies, public relations programs, promotion, and targeting and segmentation. Course involves team work, multi-media presentations and class discussion.
JOUR 4263 Strategic Communication Campaigns
A-F only, 4 credit(s); prereq [3004W or 3004V], [3201 or 3202], 3251, [3179 or 3241 or 3279 or 4159 or 4259 or 4261], MKTG 3001, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Pounds, James E
Description: Student may contact the instructor or department for information.

JOUR 4272 Interactive Advertising
A-F only, 3 credit(s); prereq Non-jour major or [jour major, course appr on prog plan] or [pre-jour, adviser approval];
Instructor: Shin, Wonsun
Description: Student may contact the instructor or department for information.

JOUR 4274W Advertising in Society
A-F only, 3 credit(s); prereq Jour major or mass comm 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: Williams, Jennifer Lisa
Description: Student may contact the instructor or department for information.

JOUR 4302 Electronic Photojournalism
A-F only, 3 credit(s); prereq [3004W or 3004V], 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 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 4992 Capstone: Field Based Practicum
A-F only, 3 credit(s); prereq [3004W or 3004V], [3101 or 3101H], 3121, 3451, [jour major or approved IDIM major or ICP major or BIS major];
Instructor: Benson, Dana Richard
Description: Student may contact the instructor or department for information.
University of Minnesota - Course Guide for Twin Cities Campus

Spring 2010

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 4993H Honors: Projects
A-F only, 3 credit(s); 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: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Sullivan, Dan
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Projects
A-F only, 3 credit(s); 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: Projects
A-F only, 3 credit(s); 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: Projects
A-F only, 3 credit(s); 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: Projects
A-F only, 3 credit(s); 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: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Tims, Albert R
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Wackman, Daniel Bruce
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Hansen, Kathleen
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Projects
A-F only, 3 credit(s); 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: Projects
A-F only, 3 credit(s); 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: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Kirtley, Jane E
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Schwitzer, Gary John
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Southwell, Brian G
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Projects
A-F only, 3 credit(s); 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: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Huh, Jisu
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Yzer, Marco
Description: Student may contact the instructor or department for information.

JOUR 4993H Honors: Projects
A-F only, 3 credit(s); prereq Jour major, honors div regis, college consent, dept consent, instr consent;
Instructor: Southwell, Brian G
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
JOUR 5131 Capstone: In-Depth Reporting
A-F only, 3 credit(s); prereq [[3004W or 3004V], [3101 or 3101H, 3121], [jour major or approved IDIM major or ICP major or BIS major] or grad student credit will not be granted if credit received for: 4131;
Instructor: Mc Enroe, Paul Joseph
Description: Student may contact the instructor or department for information.

JOUR 5174 Capstone: Magazine Editing and Production
A-F only, 4 credit(s); prereq [[3004W or 3004V], [3101 or 3101H], [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: Larsen, Elizabeth F
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 inst consent;
Instructor: Eiglemyer, John
Description: This course is concerned with psychological concepts and theories, behavioral science research techniques, and research applications that advance understanding of the development and evaluation of advertising. Theories and concepts focusing on attitude content, structure and change are used to critically analyze advertising. The conceptual focus is primarily on the theory of planned behavior, elaboration likelihood and the role of emotions. With 42 students in the class, the classroom approach is a combination of lecture and discussion about the theories, research findings and their specific application to improve critical thinking about advertising. The course is intended for students who have studied advertising and/or behavioral sciences. WebCT is used extensively.
Style: 50% Lecture, 50% Discussion.
Grading: 20% final exam, 20% reports/papers, 20% special projects, 40% other evaluation. Two mid-term tests (each 20 percent of grade)
Exam Format: Essay

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 inst consent;
Instructor: Huh, Jiau
Description: Student may contact the instructor or department for information.

JOUR 5541 Mass Communication and Public Health
3 credit(s); prereq Jour major or jour minor or grad major or IDIM major or ICP major or BIS major;
Instructor: Yzer, Marco
Description: This course is designed to provide an overview of theory and research regarding the intersection of information available via mass media outlets and various aspects of public health. In this course we examine the potential impact of media content on public health outcomes both as a product of individual’s everyday interaction with media and as a result of strategic use of media-based efforts to accomplish public health goals. Discussion will emphasize both planned and unplanned effects of mass media in a variety of health-related situations. For SPH and Health Sciences students, this course is intended to complement courses in social and behavioral approaches to community health. This includes the intervention core in Community Health Education and the social and behavioral science perspectives in MPH programs in general. This course is primarily a critical review of theory, research, and applications of mass media in public health but applies to planning principles for developing media-based public health interventions. For students in Journalism and Mass Communication, the course is intended to complement social and behavioral science approaches to public opinion and media effects as well as to provide another perspective on the study of mass media as social institutions. For students in Health Communication, the course also is intended as a basis for courses on health message design and public health campaign evaluation. The learning objectives of this 3-credit course are to advance the student’s familiarity, comprehension, and application of a broad range of mass communication-related facts, concepts, and theories as they apply to public health: 1. The student will recognize the transdisciplinary nature of mass communication and public health, and will identify the critical relationships between theoretical ideas from different disciplines, i.e., communication, public health and psychology. 2. The student will identify the complex interdependence of critical factors in mass communication of public health, i.e., factors related to audience, environment (e.g., competing and reinforcing media efforts), message, and the health issue at hand. 3. The student will be able to analyze the effects of various media content on the public’s beliefs about health issues. 4. The student will be able to write about health communication issues in a compelling manner. This means that the student’s writing carefully builds an argument that integrates theoretical notions about communication and health, and applies them to real life issues. 5. Self-discovery: The student will reflect on herself or himself as a scholar, a producer of media health information, and a consumer of media health messages. How do the approaches discussed in this course relate to your individual interests? What are the implications of the planned and unplanned effects of health media information for how you engage with the media?

JOUR 5543 Public Health Campaign Evaluation
A-F only, 3 credit(s); prereq [5541, [enrolled in MA in health journalism or grad student or jour major or mass comm minor or approved IDIM major or ICP major or BIS major] or instr consent;
Instructor: Southwell, Brian G
Description: Student may contact the instructor or department for information.

JOUR 5552 Law of Internet Communications
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] credit will not be granted if credit received for: 4552;
Instructor: Sanders, Amy Kristin
Description: Student may contact the instructor or department for information.

JOUR 5601W History of Journalism
A-F only, 3 credit(s); prereq Jour major or jour minor or approved IDIM major or ICP major or BIS major; IDL sections are open to non-majors; prereqs do not apply to IDL sections; Meets CLE req of Writing Intensive;
Instructor: Dell’Orto, Giovanna
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions 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 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions 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: Sullivan, Dan
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 completions allowed;
JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Pedelty,Mark Holmes
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Dell'Orto,Giovanna
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Faber,Ronald J
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Schwartz,Dona
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Tims,Albert R
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Wackman,Daniel Bruce
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent , dept consent , instr consent ;
Instructor: Hansen,Kathleen Ann
Description: Student may contact the instructor or department for information.

JOUR 5993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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: Squires,Catherine 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 completions 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: Sanders,Amy Kristin
Description: Student may contact the instructor or department for information.

JOUR 8003 The Changing Media Environment
A-F only, 3 credit(s); prereq Journalism graduate students; Instructor: Thiel-Stern,Shayla
Description: Student may contact the instructor or department for information.

JOUR 8193 Capstone: Health Journalism and Communication
A-F only, 4 credit(s); prereq Enrollment in MA in health journalism or instr consent; Instructor: Doyle,Kenneth Owen
Description: Student may contact the instructor or department for information.

JOUR 8202 Generation and Selection of Communication Strategies
A-F only, 3 credit(s); prereq Strat Comm MA grad major; Instructor: Wehrenberg,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: Wood,Michelle Leigh Maronn
Description: Student may contact the instructor or department for information.

JOUR 8501 Seminar: The Process of Quantitative Mass Communication Research
A-F only, 3 credit(s); prereq 9 cr soc sci, EPsy 5260 or equiv or concurrent enrollment in EPsy 5260; Instructor: Huh,Jisu
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: Dell'Orto,Giovanna
Description: Student may contact the instructor or department for information.

JOUR 8651 Seminar: Mass Media and Social Change
A-F only, 3 credit(s); prereq 8001 or 8002 or equiv; Instructor: Pedelty,Mark Holmes
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 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions 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 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent; Instructor: Sullivan,Dan
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 completions 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 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent; Instructor: Sullivan,Dan
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 completions 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 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent; Instructor: Dell'Orto,Giovanna
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 completions allowed; prereq Grad mass comm major or minor, instr consent, dept consent; Instructor: Faber,Ronald J
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 completions 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 completions 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.
A-F only, 1-6 credit(s), max credits 6, 6 completions 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 completions 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 completions 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 completions 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.

Kinesiology

220 Cooke Hall

KIN 1050 Beginning Military Physical Fitness Training
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Hogan, Timothy M
Description: The Army's model of physical fitness training is used to address five aspects of fitness in the context of running, weight training, strength exercise, circuit training, and team sport activities. Students are organized into groups of similar fitness levels.

KIN 1871 Survey of Kinesiology, Recreation, and Sport
A-F only, 3 credit(s);
Instructor: Bhalla, Jennifer Anita
Description: Professional practice and disciplinary dimensions of kinesiology, recreation, and sport. Subdisciplines, relevant issues, practical applications.

KIN 3001 Lifetime Health and Wellness
A-F only, 3 credit(s);
Instructor: Ingraham, Stacy Jean
Description: This class addresses current health and wellness issues at the individual, local and global levels. The components of wellness involve: physical, social, emotional, intellectual, spiritual, environmental and financial health. The goal of the class is to develop strategies that improve quality of life throughout life expectancy. This is an interactive class through lecture. The target audience for this class is students desiring a healthy and productive life.
Style: 80% Lecture, 15% Discussion.
Grading: 14% mid exam, 14% final exam, 29% reports/papers, 3% quizzes, 23% written homework, 10% reflection paper, 7% in-class presentation.
Exam Format: Multiple choice / T-F
KIN 3001 Lifetime Health and Wellness
A-F only, 3 credit(s);
Instructor: Carroll, Christopher K
Description: Overview of health and wellness, including physical, emotional, intellectual, spiritual, social, environmental, and financial health. Societal changes and the influences of these changes on the general health and wellness of diverse populations.

KIN 3001 Lifetime Health and Wellness
A-F only, 3 credit(s);
Instructor: Statt, Eric H
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: Blitz, George Robert
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 completions allowed;
prereq 4 cr of 1050 or instr consent;
Instructor: Hogan, Timothy M
Description: The Army's model of physical fitness training is used to address five aspects of fitness in the context of running, weight training, strength exercise, circuit training, and team sport activities. Students are organized into groups of similar fitness levels.

KIN 3112 Introduction to Biomechanics
A-F only, 4 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 course consists of a weekly lecture and a laboratory session. The lecture portion of the course introduces basic concepts of physics and applies them to the analysis of human motion. It expands the knowledge students have gained in human anatomy by relating anatomy to human motor function. 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 students interested in careers in the health sciences, biology and biomedical engineering.
Style: 60% Lecture, 10% Discussion, 30% Laboratory.
Grading: 25% mid exam, 30% final exam, 25% laboratory evaluation, 20% other evaluation. six-week exam
Exam Format: A mix of multiple choice, essay questions

KIN 3112 Introduction to Biomechanics
A-F only, 4 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: Lu, Chia-Hao
Description: Mechanical principles governing human motion. Human bone, muscle, and neuropsychology. Measurements of human performance. Clinical/applied sport biomechanics. Lab introduces technology for assessing human motor function such as electromyography or force sensors.

KIN 3113 First Responder for Coaches and Athletic Trainers
A-F only, 3 credit(s);
Instructor: McNeil, 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);
Instructor: Osgood, Chad Thomas

KIN 3126W Sport and Exercise Psychology
A-F only, 3 credit(s);
Instructor: Bolter, Nicole
Description: Introduction to sport psychology/sociology. Factors related to individual/institutional behavior in competitive/recreational athletics, exercise, physical education, and rehabilitation.

KIN 3126W Sport and Exercise Psychology
A-F only, 3 credit(s);
Instructor: Thul, Chelsey Marie
Description: Introduction to sport psychology/sociology. Factors related to individual/institutional behavior in competitive/recreational athletics, exercise, physical education, and rehabilitation.

KIN 3126W Sport and Exercise Psychology
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 3131W History and Philosophy of Sport
A-F only, 3 credit(s);
Instructor: Kipp, Lindsay Erin
Description: Introductory description and interpretation of the historical and philosophical development of physical education and sport from primitive societies to 20th century civilization

KIN 3132 Introduction to Motor Development Across the Lifespan
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 3135 Introduction to Motor Learning and Control
A-F only, 3 credit(s);
Instructor: Wade, Michael G.
Description: This course covers the principles that influence the learning of motor skills; the theoretical ideas that have sought to account for both skill learning and the control and coordination of motor behavior. The course consists of a weekly lecture and discussion-quizzes to cover textbook material-an end of
semester project and a take-home final exam. In addition to the lectures students will be required to read assigned readings to supplement the textbook.

KIN 3136 Mental Skills Training for Sport
A-F only, 2 credit(s); prereq credit will not be granted if credit already received for: SMGT 3621;
 Instructor: Winges, Jim
Description: Psychological theories/techniques as they apply to sport performance and personal growth of sport participants.

KIN 3143 Organization and Administration of Sport
A-F only, 3 credit(s); prereq Kin major or instr consent;
 Instructor: Schull, Vicki Denise
Description: How to organize/administer sports/activities. Practice/class organization, meet/game organization, facility/equipment needs, finances.

KIN 3151 Measurement and Evaluation in Kinesiology
A-F only, 3 credit(s); prereq Kin major or instr consent;
 Instructor: Wade, Michael G
Description: Introduction to philosophy of measurement/evaluation in physical education, exercise science, sport, and leisure. Test/assessment selection, construction, evaluation, and administration. Interpretation of 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/match/contest for demonstration/teaching purposes;
 Instructor: Cardarelle, Amy Jo
Description: Coaching theory and skill development necessary to coach soccer.

KIN 3169 Volleyball Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or KIN major or instr consent ], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes;
 Instructor: Chung, Vinh Khai
Description: Coaching theory and skill development necessary to coach volleyball.

KIN 3173 Football Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or KIN major or instr consent ], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes;
 Instructor: Peterson, Gregory Jon
Description: Coaching theory and skill development necessary to coach football.

KIN 3178 Tennis Coaching Theory and Skill Development
A-F only, 2 credit(s); prereq [Enrolled in coaching program or KIN major or instr consent ], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes;
 Instructor: Sanny, John H
Description: Coaching theory and skill development necessary to coach tennis.

KIN 3327 Teaching Physical Education in the Elementary School
A-F only, 2 credit(s); prereq Elem ed major;
 Instructor: Mooers, 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 3327 Teaching Physical Education in the Elementary School
A-F only, 2 credit(s); prereq Elem ed major;
 Instructor: Heisel, Nancy
Description: Overview of the elementary physical education process with focus on a classroom teacher's perspective and needs. Representative experiences include participation, lecture, micro-teaching, final test.

KIN 3385 Human Physiology
A-F only, 4 credit(s); prereq [[3027 or 3111 or equiv], kin major] or instr consent;
 Instructor: Biltz, 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 3696 Supervised Practical Experience
S-N only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Ingraham, Stacy Jean
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, 10 completions allowed; prereq instr 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, 10 completions allowed; prereq instr consent;
 Instructor: Biltz, George Robert
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Rodgerson, Richard W
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Buyse, Jo Ann
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Lewis, Beth Ann
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Directed readings for any practicum experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
 Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience.
KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Dengel PhD, Donald Robert
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Konczak PhD, Juergen
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Hoffman, Brandi L
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr 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, 10 completions allowed; prereq instr consent;
Instructor: Ross, Stephen D
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Petit, Moira Anne
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Wiese-Bjornstal PhD, Diane
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Dengel PhD, Donald Robert
Description: For Kinesiology majors who wish to study a topic or problem under tutoria guidance.

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr 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, 10 completions allowed; prereq instr consent;
Instructor: Ross, Stephen D
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Kihl, Lisa A
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Buss, Douglas C
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Wiese-Bjornstal PhD, Diane
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Ross, Stephen D
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq instr 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, 10 completions allowed; prereq instr consent;
Instructor: Dengel PhD, Donald Robert
Description: Student-selected clinical or research experience

KIN 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed; prereq Kin honors, instr consent;
Instructor: Wiese-Bjornstal PhD, Diane
Description: Student-selected clinical or research experience
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 4133 Perceptual-Motor Control and Learning
A-F only, 3 credit(s); prereq [3112, 3132, 3135, KIN major] or instr consent will not be granted if credit already received for: Kin 3133;
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% mid exam, 25% final exam, 10% reports/papers, 25% laboratory evaluation, 20% other evaluation. additional exam
Exam Format: multiple choice, with short essays

KIN 4136 Embodied Cognition
A-F only, 3 credit(s); prereq 4133 or instr consent;
Instructor: Stoffregen, Thomas
Description: Introduction to relations between physical behavior and mental activity. Cognitive, emotional, and social aspects. Concepts of embodied cognition, their relation to traditional concepts of mind/body. Lifespan development, empirical research.

KIN 4385 Exercise Physiology
A-F only, 4 credit(s); prereq [[3385 or PHSL 3051, or equiv], kin major] or instr consent;
Instructor: Dengel PhD,Donald Robert
Description: Information and learning experiences will be presented that cover specific areas within the discipline of Exercise Physiology. This course is designed for the advanced undergraduate student in Kinesiology, as well as advanced students in such complementary areas as public health, nutrition, physiology, biology, biochemistry, or any sport-related areas. It creates a great opportunity to combine the science of biological, biochemistry, physics, and physiology with the study of health, fitness, wellness, human performance, and sport. Emphasis is placed on basic human physiological systems and the responses of those systems to the challenge of physical activity: from moderate to extreme intensities. The biochemical bases of these responses will be presented. Historical, psychological, sociological, and philosophical implications of these topics will be integrated into many of the lecture/discussions. In addition to lecture information, students will be provided a “hands on”, small group laboratory experience that is carefully orchestrated to track lecture material and presentations.

KIN 4697 Student Coaching and Seminar
S-N only, 3 credit(s); prereq [ Coaching minor or certificate] student, GPA of at least 2.50;
Instructor: Ingraham,Stacy Jean
Description: Practicum with coinciding seminars.

KIN 4741 Strength and Power Development and Program Design
A-F only, 3 credit(s); prereq Kinesiology major or coaching minor or coaching certificate or kinesiology MEd or instr consent;
Instructor: Fitzgerald,John S
Description: 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 4981 Understanding Kinesiology Research
A-F only, 3 credit(s); prereq Intro statistics recommended;
Instructor: STAFF
Description: Prepares students to critically analyze research specific to Kinesiology.

KIN 5103 Developmental/Adapted Physical Education
A-F only, 3 credit(s);
Instructor: Leitschuh,Carol A.
Description: Movement skills assessment of individuals with disabilities is addressed with particular focus on school age students qualifying for special physical education and participating in ongoing physical activity programs. In addition, assessment of movement skills of infants, toddlers regarding early intervention is included along with assessment of preschoolers engaged in physical activity. Attention is given to both standardized and non-standardized assessment tools and evaluation reports. Topics are pertinent to physical educators and those interested in physical and occupation therapy as well as nursing and other occupations working with individuals with atypical motor development or disability.
Style: 80% Lecture, 10% Discussion.
Grading: 25% final exam.
Exam Format: Multiple choice and essay

KIN 5111 Sports Facilities
A-F only, 3 credit(s); prereq Kin or Rec grad student or MEd student;
Instructor: Turman PhD,James C
Description: An overview of sports facilities including the planning, development, design, construction, and management of such facilities with emphasis on major indoor multipurpose facilities for recreational sports, physical education, and intercollegiate athletics on the college campus and an introduction to public/private arenas and stadiums. Other topic areas may include funding and financing, operations management, marketing, advertising, public relations, and risk management.
Style: 35% Lecture, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 15% Field Trips, 5% Guest Speakers.
Grading: 17% final exam, 35% reports/papers, 25% special projects, 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

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: Burns,Kevin Victor
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 5123 Motivational Interventions in Physical Activity
A-F only, 3 credit(s); prereq 3126W or grad student;
Instructor: Lewis,Beth Ann
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.
Description: Psychological principles related to physical activity (PA). Delivery of motivational interventions for physical activity. Motivational PA interventions. Two papers, one presentation, two exams.

KIN 5126 Sport Psychology
A-F only, 3 credit(s); prereq 3126W or equiv or instr consent
Instructor: Weiss, Maureen R
Description: Theory and research in sport psychology. Focus on the psychological study of human behavior in sport and physical activity settings.

KIN 5136 Psychology of Coaching
3 credit(s);
Instructor: LaVol, Nicole Marie
Description: The course is broken down into two components. The first component focuses on helping coaches (and other sport practitioners) develop skills in creating a climate where optimal development, optimal performance and optimal experience occur simultaneously across all competitive levels. Topics covered in this component include coaching philosophy, leadership, communication skills, motivation, and team building. The second component introduces psychological skills training (PST) and ways in which coaches can implement PST in their programs for performance enhancement. This is an applied course. Kin 3126 is strongly recommended as a prerequisite. This course is invaluable and highly recommended for students in the coaching minor, and for UG and Graduate students who are currently coaching or intend to coach. Individuals in the Armed Forces also find this course relevant to leadership and aspects of optimal performance. Experienced coaches (i.e., coaches with some or many years of coaching) find the course insightful and transformative. This course is relevant for anyone who manages, motivates, and tries to help individuals attain optimal performance in any context—not just sports.
Style: 50% Lecture, 5% Film/Video, 15% Discussion, 5% Laboratory, 10% Small Group Activities, 5% Student Presentation, 5% Guest Speakers, 5% Web-Based. The course is taught using blended learning and different teaching pedagogies aimed at actively engaging students.
Grading: 15% final exam, 20% reports/papers, 50% reflection paper, 5% in-class presentation, 10% class participation.
Exam Format: short answer, case study, essay

KIN 5142 Applied Sport Nutrition for Athletic Performance
3 credit(s); prereq Grad student or instr consent
Instructor: Ingraham, Stacy Jean
Description: This course investigates the current trends in athletic performance related to sports nutrition. The course provides an opportunity to evaluate current supplementation in the athletic arena. The student will develop an understanding of evidence-based recommendations in sport nutrition.
Style: 65% Lecture, 10% Discussion, 15% Small Group Activities, 10% Student Presentation.
Grading: 30% final exam, 31% reports/papers, 23% special projects, 5% attendance, 11% in-class presentation.
Exam Format: essay

KIN 5196 Practicum: Developmental/Adapted Physical Education
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed; prereq 5103 or concurrent enrollment 5103 or 5104 or concurrent enrollment 5104 or instr consent; KIN undergraduate pre-teaching with sr status are limited to 2 practicum hrs
Instructor: Leitschuh, Carol A.
Description: This practicum course includes participation in the public school system of physical education instruction for students with disabilities; includes a seminar component for discussion of current issues in developmental adapted physical education and exchange of ideas and problems.

KIN 5235 Advanced Biomechanics II: Kinetics
A-F only, 3 credit(s); prereq [3112 or equiv], PMed 5135, undergrad college physics, intro calculus;
Instructor: Nuckley, PhD, David J
Description: This course examines the forces which create human motion and which are produced within the body as a result of human motion. Using lectures, laboratory experiments, and group discussion we will develop the skills for measuring the kinetics of human motion. Clinical movement assessment as well as exercise, sport, and activities of daily living will be measured and analyzed to describe the transfer of forces within the body. We will develop two dimensional rigid body dynamics models to describe human kinetics, discuss forward and inverse dynamics solutions, and develop hypotheses to describe whole body and joint kinetics.

KIN 5371 Sport and Society
A-F only, 3 credit(s); prereq [3126W, grad student] or instr consent
Instructor: Kane, Mary Jo
Description: Student may contact the instructor or department for information.

KIN 5375 Competitive Sport for Children and Youth
3 credit(s);
Instructor: Wiese-Bjornstad, PhD, Diane
Description: A number of cognitive, behavioral, and physical developmental factors having important implications for organized sport participants from early childhood through high school age are examined in this course. Such factors typically include the historical, philosophical, psychological, social, managerial, medical and physiological dimensions of youth sport participation, as well as related current issues in sport for children and youth. Emphasis is placed both on gaining knowledge about sport science research on young athletes and discussion about current issues surrounding children and youth in sport. Students are expected to demonstrate their ability to apply this knowledge toward improving the climate of sport for children and youth via their current or future work as youth sport professionals. Target audiences include applied kinesiology professionals such as current and prospective youth sport coaches and program administrators, physical education teachers, recreation leaders, early childhood and parent educators, and youth development specialists. Pedagogical techniques include lecture, discussion, video, guest speakers, and peer presentations.
Style: 40% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 20% Student Presentation, 10% Guest Speakers.
Grading: 20% final exam, 40% reports/papers, 10% reflection paper, 30% in-class presentation.
Exam Format: Essay format

KIN 5385 Exercise for Disease Prevention and Management
A-F only, 3 credit(s); prereq Undergrad [physiology or biology];
Instructor: Leon, Arthur S
Description: Exercise testing and prescription with modifications required because of special considerations associated with aging, gender differences, environmental conditions, and the presence of medical conditions.
Style: 90% Lecture, 5% Discussion, 5% Laboratory.
Grading: 40% mid exam, 40% final exam, 20% reports/papers.

KIN 5461 Foundations of Sport Management
A-F only, 3 credit(s); prereq Kin or rec or postbac or grad student or instr consent
Instructor: Esten, Phil L
Description: Theories/techniques in administration/management of sport enterprises. Organizational theory/policy, practical examples of sport management skills/strategies.

KIN 5631 Programming and Promotion in Sport
A-F only, 3 credit(s); prereq 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...
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: Ingraham, Stacy Jean
Description: This course analyzes strategies used to design training and conditioning programs for athletic performance. This course is a round-table discussion reviewing peer-reviewed journal articles specific to training athletes. This course is an opportunity to discuss and critique current trends in sport training and to make evidence-based decisions in the interest of sport performance.
Style: 5% Lecture, 70% Discussion, 25% Student Presentation.
Grading: 24% final exam, 29% reports/papers, 17% written homework, 15% journal, 15% in-class presentation.

KIN 5696 Practicum in Kinesiology
S-N only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq [Kin MEd or grad student], instr consent;
Instructor: STAFF
Description: Practical experience in kinesiology under supervision of a University faculty member and an agency supervisor.

KIN 5720 Special Topics in Kinesiology
1-8 credit(s), max credits 8, 8 completions allowed;
prereq Kin upper div undergrad or grad student or instr consent;
Instructor: Fitzgerald, Kevin Michael Patrick
Description: The world of college sports is examined though 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: Developmental Sport and Exercise Psychology
3 credit(s), max credits 8, 8 completions allowed;
prereq Kin upper div undergrad or grad student or instr consent;
Instructor: Weiss, Maureen R
Description: Current issues in the broad field and subfields in kinesiology, or related coursework in areas not normally available through regular offerings.

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 5981 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 and sport science, physical education, and recreation studies. Qualitative research, field studies, and introspective research strategies as alternatives to traditional scientific paradigm.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], instr consent;
Instructor: Buyse, Jo Ann
Description: Readings on Globalization theory, Italian language and culture. This course is offered as a preparation for the May Session Global Sport course in Italy. Only students who are taking the May Session Learning Abroad course may sign up for this readings course.
Style: 20% Lecture, 60% Discussion, 20% Small Group Activities. meeting once a week for 75 minutes.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 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, 9 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], instr consent;
Instructor: LaVoi, Nicole Marie
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], 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, 9 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], instr consent;
Instructor: Serfass, Robert C
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], instr consent;
Instructor: Leon, Arthur S
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], instr consent;
Instructor: Kane, Mary Jo
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], instr consent;
Instructor: Wade, Michael G
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq [Kin upper div undergrad or MEd or grad student], instr consent;
Instructor: Wiese-Bjornstal, Phil D, Diane
Description: Independent study under tutorial guidance.
KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Konczak, Ph.D., Juergen
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor 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, 9 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor 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, 9 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Dengel, Donald, Ph.D.
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor 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, 9 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Ross, Stephen D
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Kihl, Lisa A
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Petit, Moira Anne
Description: Independent study under tutorial guidance.

KIN 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Weiss, Maureen R
Description: Independent study under tutorial guidance.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Smith, Thomas J
Description: Directed study of selected research problems in kinesiology, with an emphasis on the areas of human factors/ergonomics and motor behavior.
Style: 100% Discussion.
Grading: 100% special projects.
Exam Format: no exam

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Konczak, Ph.D., Juergen
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, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Ingraham, Stacy Jean
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, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor 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, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Dengel, Donald, Ph.D.
Description: Independent study under tutorial guidance.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Wade, Michael G
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, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Leon, Arthur S
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, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor 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, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor consent; Instructor: Konczak, Ph.D., Juergen
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, 6 completions allowed; prerequisite [KIN upper div undergrad or MEd or grad student], instructor 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, 6 completions allowed; prerequisite [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instructor 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, 6 completions allowed; prerequisite [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instructor 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, 6 completions allowed; prerequisite [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instructor 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, 6 completions allowed; prerequisite [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instructor 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, 6 completions allowed; prerequisite [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instructor 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, 6 completions allowed; prerequisite [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instructor 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%20Proposal%20Form.pdf. 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, 6 completions allowed; prerequisite [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instructor 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, 6 completions allowed; prerequisite [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instructor consent;
Instructor: Weiss,Maureen R
Description: Selected topics in physical activity/human performance.

KIN 5995 Research Problems in Applied Kinesiology
A-F only, 3 credit(s), max credits 6; prerequisite 4135 or equiv or instructor consent;
Instructor: Kihl,Lisa A
Description: Research methods in Kinesiology, Recreation, and Sport. It is recommended that students complete KIN/REC 5981 Research Problems in Kinesiology.

KIN 5995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite Kin PhD student, instructor consent;
Instructor: Buyse,Jo Ann
Description: Research Problems in Kinesiology.

KIN 8696 Internship: Applied Sport Psychology
S-N only, 3-6 credit(s), max credits 6; prerequisite 5126, 8126, Kin PhD student, instructor consent;
Instructor: Wiese-Bjornstal PhD,Diane
Description: Supervised internship; emphasis on educational sport psychology approaches to athletic performance enhancement and psychological adjustment to sport injury.

KIN 8980 Graduate Research Seminar in Kinesiology
S-N only, 1 credit(s), max credits 9, 9 completions allowed; prerequisite Grad Kin major, instructor consent;
Instructor: Serfass,Robert C
Description: Reporting and discussion of student and faculty research activity.

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite Kin PhD student, instructor consent;
Instructor: Buysse,Jo Ann
Description: Research Problems in Kinesiology.

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite Kin PhD student, instructor consent;
Instructor: LaVol,Nicole Marie
Description: Research Problems in Kinesiology.

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite Kin PhD student, instructor 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 completions allowed; prerequisite Kin PhD student, instructor consent;
Instructor: Ingraham,Stacy Jean
Description: Research Problems in Kinesiology.

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed; prerequisite Kin PhD student, instructor 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 completions allowed; prerequisite Kin PhD student, instructor 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 completions allowed;
prereq Kin PhD student, 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 completions allowed;
prereq Kin PhD student, instr consent;
Instructor: Wiese-Bjornstal PhD, Diane
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent;
Instructor: Konczak PhD, Juergen
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent;
Instructor: Ross, Stephen D
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent;
Instructor: Kihl, Lisa A
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent;
Instructor: Petit, Moira Anne
Description: Research Problems in Kinesiology

KIN 8995 Research Problems in Kinesiology
S-N only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Kin PhD student, instr consent;
Instructor: Weiss, Maureen R
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: 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 Nolle Hall, MN English Center.
Style: lectures, listening lab, speaking assignments
Grading: short quizzes and final exams, assignments, and class performance
Exam Format: both written and oral

KOR 3022 Intermediate Korean
5 credit(s); prereq 3021; Credit will not be granted if credit has been received for: KOR 4004;
Instructor: Yoon, Sang-Seok
Description: This course intends to provide students with four skills, speaking, reading, writing and listening, of Korean language at intermediate level. Essential expressions and vocabularies will be introduced for students to adjust themselves in Korea if they go study abroad in Korea. Also, cultural aspect of the language will be discussed in the class for better understanding of Korean language and society.

KOR 3032 Third Year Korean
4 credit(s); prereq 3031;
Instructor: Yoon, Sang-Seok
Description: Student may contact the instructor or department for information.

KOR 3993 Directed Studies
1-3 credit(s), max credits 12, 4 completions allowed; prereq instr consent, dept consent, college consent;
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: Cho, Hangtae
Description: Student may contact the instructor or department for information.

KOR 4004 Intermediate Korean
3 credit(s); prereq 4003, grad student; Credit will not be granted if credit has been received for: KOR 3022;
Instructor: Yoon, Sang-Seok
Description: This course intends to provide students with four skills, speaking, reading, writing and listening, of Korean language at intermediate level. Essential expressions and vocabularies will be introduced for students to adjust themselves in Korea if they go study abroad in Korea. Also, cultural aspect of the language will be discussed in the class for better understanding of Korean language and society.

KOR 4006 Third Year Korean
3 credit(s); prereq 4005, grad student;
Instructor: Yoon, Sang-Seok
Description: This course is focused on enhancing students' Korean to intermediate-advanced level by widening vocabularies and practicing more complex structure in Korean language. More readings in Korean text will help students' better understanding of Korean's sentiments. Discussions on Korean culture and society will widen for students to understand Korea. Students will also learn basic Chinese characters which are essential for learning Korean language.

KOR 4042 Advanced Readings in Modern Korean
4 credit(s); prereq 4041 or equiv or instr consent;
Instructor: Cho, Hangtae
Description: Student may contact the instructor or department for information.

KOR 5140 Readings in Sino-Korean Texts
Lab 1417 Nature of Disease and Pathology for the Health Professions
3 credit(s); prerequisite [One anatomy course, one physiology course, registered in allied health program] or instructor consent
• Instructor: Wilke, Mark Steven
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)

Lab 4177 Nature of Disease and Pathology for the Health Professions
3 credit(s); prerequisite [One anatomy course, one physiology course, registered in allied health program] or instructor consent
• Instructor: Lebahn, Fran
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policy, fee, and financial aid information. In this course we follow the traditional teaching of pathology currently used for most health science students. We begin with topics in general pathology, then go on to topics on organ-specific pathology. At the conclusion of this course, you should be able to: understand human disease as an alteration of normal structure and function, understand the concepts and underlying general pathology, and correlate these patterns with specific diseases in different organ systems - become familiar with common terms used in clinical medicine and pathology and the frequently used suffixes and prefixes, e.g., -itis, -emia, dys-, as in dysplasia, etc. - be able to, for each of the systems delineated (e.g., the cardiovascular system): indicate the common diseases of the system, inherited, infectious, neoplastic, etc.; explain the primary features of each disease; understand the interdependence of anatomic and functional systems
Style: 100% Web Based
Grading: There are five required unit exams for this course; they are each worth 20 percent of your grade.
Exam Format: Supervised (not online) proctored exams

Landscape Architecture
144 Rapson Hall
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: Classroom and homework projects will focus on exploring landscape space and organization through the completion of assigned exercises and work in your sketch journal. Progress will be evaluated and guidance offered during classroom critique. You will be expected to work in class, so be sure that you bring your materials to class unless notified otherwise. The class will consist of classroom drawing exercises, lectures, demonstrations, and reviews of students' work. Weekly assignments will typically be given on Monday to be completed Wednesday depending upon the nature of the assignment.
Grading: 60% special projects, 20% laboratory evaluation, 20% other evaluation. Sketch journal

LA 1401 The Designed Environment
A-F only, 3 credit(s);
• Instructor: Agee, Bradley Steele
Description: The course is the designed environment - the intentionally designed places we frequent and inhabit. Efforts will be directed towards learning to "see" and design in the everyday world in order to understand the ideas and principles on which the designed environment is built. The course will be looking at how the professions of architecture, landscape architecture and urban design (among others) combine to influence the shape and function of our homes, cities and region. Observe and critique the interaction between human needs/customs with biophysical systems in which we live. Students will be asked to look at designed spaces for themselves. Lectures and readings will support investigations.
Grading: 30% mid exam, 30% final exam, 40% laboratory evaluation.

LA 3002 Informants of Creating Landscape Space
A-F only, 3 credit(s);
• Instructor: Kinney, Tracey Rae
Description: Student may contact the instructor or department for information.

LA 3004 Regional Landscape Planning
3 credit(s); prerequisite 2302, FR 3131; Concurrent registration is required (or allowed) in 3001;
• Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 3004 Regional Landscape Planning
3 credit(s); prerequisite 2302, FR 3131; Concurrent registration is required (or allowed) in 3001;
• Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 3204 Holistic Landscape Ecology and Bioregional Practice
A-F only, 3 credit(s); prerequisite [EEB 3001, ESPM 3108, or BED major] or equivalent;
• Instructor: Musacchio, Laura R
Description: This course will help you to develop greater insights into bioregional practice and how it responds to the landscape ecology of great bioregions. The goal for this course will be learning more about the scientific and cultural basis for bioregional design and landscape sustainability. A prerequisite for this course is EEB 3001 Ecology and Society.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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 3514 Making the Mississippi
A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: LA 1202; Credit will not be granted if credit has been received for: LA 5514;
Instructor: Nunnally, Patrick
Description: Student may contact the instructor or department for information.

LA 4002 Implementation of Sustainable Landscape Architecture Design and Practice
3 credit(s); prereq 1301, 2301, 2302, 3001, 3002, 3003, 4001;
Instructor: Lehrman, Barry
Description: Student may contact the instructor or department for information.

LA 4096 Internship in Landscape Design and Planning
S-N only, 1 credit(s); prereq 1301, 2301, 2302, 3001, 3002, 3003;
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: Wedul, Andrea M
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 5204 Metropolitan Landscape Ecology
3 credit(s); prereq B.E.D. accelerated status or LA grad student or instr consent;
Instructor: Musacchio, Laura R
Description: Our goal for the semester will be to develop your understanding about the theories and principles of holistic landscape ecology, and how this knowledge can help you learn more about people, nature and environmental stewardship in metropolitan landscapes. In this class, metropolitan landscapes include not only urban areas but also the rural areas that provide natural resources for people. During the semester, we will explore questions about the relationship among people, nature, and sustainability.

LA 5372 Computer Methods II
S-N only, 1 credit(s); prereq Arch/LA 5371, LA grad or instr consent; Credit will not be granted if credit has been received for: ARCH 5372;
Instructor: Kocian, Matthew Bernard
Description: During the semester, we will continue to develop our understanding of computer software and its value in Landscape Architectural representation. A continuation of 2D representation methods and an introduction to 3D modeling will be the focus of this course.

LA 5374 Representation for Landscape Architectural Construction
3 credit(s);
Instructor: de Britto, Vincent P
Description: Student may contact the instructor or department for information.

LA 5375 Advanced Rendering in Landscape Architecture
3 credit(s);
Instructor: Schlapp, Nichole
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Martin, Roger B
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Koepeke, John Albert
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Galatowitsch, Susan M
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Hewitt, Clinton N
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Sykes, Robert D
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
Instructor: Miller, Kristine Frances
Description: Student may contact the instructor or department for information.

LA 5400 Topics in Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq B.E.D. accelerated status or LA grad or instr consent;
LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Musacchio, Laura R
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Martin, Roger B
Description: Student may contact the instructor or department for information.

LA 5401 Directed Studies in Emerging Areas of Landscape Architecture
1-3 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Krinke, Rebecca Jean
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Martin, Roger B
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Martin, Roger B
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Koepke, John Albert
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Koepke, John Albert
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Gaitalowitsch, Susan M
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Sykes, Robert D
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Miller, Kristine Frances
Description: Student may contact the instructor or department for information.

LA 5402 Directed Studies in Landscape Architecture History and Theory
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Musacchio, Laura R
Description: Student may contact the instructor or department for information.

LA 5403 Directed Studies in Landscape Architecture Technology
1-6 credit(s), max credits 12, 12 completions allowed; prereq
LA 5403 Directed Studies in Landscape Architecture Technology
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Martin, Roger B
Description: Student may contact the instructor or department for information.

LA 5403 Directed Studies in Landscape Architecture Technology
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Schleppe, Nichole
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Martin, Roger B
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Koepke, John Albert
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Pitt, David George
Description: Student may contact the instructor or department for information.

LA 5404 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.
LA 5405 Interdisciplinary Studies in Landscape Architecture  
A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent; 
Instructor: Pitt, David George  
Description: Research, planning, and/or design projects. Topics vary.

LA 5405 Interdisciplinary Studies in Landscape Architecture  
A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent; 
Instructor: Neckar, Lance M  
Description: Research, planning, and/or design projects. Topics vary.

LA 5405 Interdisciplinary Studies in Landscape Architecture  
A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent; 
Instructor: Sykes, Robert D  
Description: Research, planning, and/or design projects. Topics vary.

LA 5405 Interdisciplinary Studies in Landscape Architecture  
A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent; 
Instructor: Miller, Kristine Frances  
Description: Student may contact the instructor or department for information.

LA 5514 Making the Mississippi  
A-F only, 0 credit(s); Credit will not be granted if credit has been received for: LA 3514; 
Instructor: Nunnally, Patrick  
Description: Student may contact the instructor or department for information.

LA 8202 Design of Planned Developments  
2-3 credit(s), max credits 3, 1 completion allowed; prereq Grad LA major or instr consent; 
Instructor: Sykes, Robert D  
Description: This course is a survey of law and real estate finance as practical tools for improving physical design for landscape architects, architects, urban planners and urban designers. Learn the basics of zoning and planning law, historical concepts of land and land ownership, special development districts, tax increment financing, community associations, cooperatives, restrictive covenants (deed restrictions) as design tools. Urban designers can easily apply them as part of design to help get projects approved by government, get them financed (and thus built), imbue them with lasting aesthetic integrity, and make them more appealing to clients and users over the long run. You will read and discuss landmark law cases, learn about land tenure and historical approaches to land value and management, develop two financial pro formas for development projects, learn how to buy land, and learn how these tools can make designs work from both the public and private points of view. Meets for first seven weeks of semester and last two weeks (four week break).

LA 8205 Urban Form Options: Landscape Architecture Studio  
6-8 credit(s), max credits 8, 1 completion allowed; prereq 2 yrs of studio, grad LA major or instr consent; 
Instructor: Miller, Kristine Frances  
Description: Urban landscape design issues, theories, and problems explored via formal/spatial inquiry in studio and readings and discussion in seminar. Urban systems, gathering spaces, ecology, infrastructure, recreation, and public space.

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 completions allowed; prereq Grad LA major or instr consent; 
Instructor: Koepke, John Albert  
Description: Student may contact the instructor or department for information.

LA 8400 Topics in Landscape Architecture  
1-3 credit(s), max credits 12, 12 completions 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  
3 credit(s), max credits 12, 12 completions 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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq instr consent; 
Instructor: Krinke, Rebecca Jean  
Description: Student may contact the instructor or department for information.
LA 8401 Directed Studies in Emerging Areas of Landscape Architecture
1-6 credit(s), max credits 12, 12 completions allowed; prereq 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 completions allowed; prereq Grad LA major or instr consent;
Instructor: Galatowitsch, Susan 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 completions allowed; prereq Grad LA major or instr consent;
Instructor: Krinke, Rebecca Jean
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 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, 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 completion 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 completion 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 completion 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 completion 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 completion 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 completion 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 completion 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 completions 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 completions allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8405 Interdisciplinary Studies in Landscape Architecture
A-F only, 1-6 credit(s), max credits 12, 12 completions 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 completions 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 completions 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 completions allowed; prereq Grad LA major or instr consent;
Instructor: Galatowitsch, Susan M
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.

LA 8406 Directed Studies in Landscape Architecture Design
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad LA major or instr consent;
Instructor: Koopeke, John Albert
Description: Student may contact the instructor or department for information.
A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; prereq Grad LA major or instr consent; 
Instructor: Pitt, David George
Description: This 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 and online work includes 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, both in class and online. 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 web-delivered portion of the course utilizes a WebVista course site.

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: Treece PhD, Rick
Description: Student may contact the instructor or department for information.

Latin

LAT 1001 Beginning Latin I
5 credit(s); Credit will not be granted if credit has been received for: LAT 5001; 
Instructor: STAFF
Description: Latin, the language of the ancient Romans, has served as a means of communication for well over two thousand years. It is not only the chief language of one of the world's major civilizations, but also an international language for centuries after Rome's fall, the ancestor of the Romance languages, and an important influence on English. The aim of Beginning Latin is to prepare you to read unadapted Latin texts by providing a solid grounding in grammar and vocabulary along with oral and written practice. With this foundation you will be able to read a wide range of ancient, medieval, and Renaissance authors. In addition, Latin 1001 will help strengthen your grasp of English grammar and vocabulary. There is no prerequisite for this course.
Style: 50% Lecture, 50% Discussion. recitation
Exam Format: translation, grammar

LAT 1002 Beginning Latin II
5 credit(s); prereq Grade of at least [C- or S] in 1001 or instr consent; 
Instructor: STAFF
Description: Latin, the language of the ancient Romans, has served as a means of communication for well over two thousand years. It is not only the chief language of one of the world's major civilizations, but also an international language for centuries after Rome's fall, the ancestor of the Romance languages, and an important influence on English. The aim of Beginning Latin is to prepare you to read unadapted Latin texts by providing a solid grounding in grammar and vocabulary along with oral and written practice. With this foundation you will be able to read a wide range of ancient, medieval, and Renaissance authors. In addition, Latin 1002 will help strengthen your grasp of English grammar and vocabulary. The prerequisite for this course is completion of Latin 1001 with a grade of C- or higher (or S) or instructor consent.
Style: 50% Lecture, 50% Discussion.
Exam Format: translation, grammar

LAT 3004 Intermediate Latin Poetry: Vergil
4 credit(s); prereq 3003 or 3113 or dept consent credit will not be granted if credit already received for: Lat 3300, Lat 3114; 
Instructor: STAFF
Description: Selections from Vergil's Aeneid for students who have had at least three semesters of Latin; introduction to Latin meter. Prerequisite: completion of Latin 3003 with a grade of C- or higher (or S) or instructor consent.
Style: 40% Lecture, 30% Discussion. Recitation
Exam Format: Short answer and essay

LAT 5004 Intermediate Latin Poetry for Graduate Students
3 credit(s); prereq [5003 or equiv], grad student; Credit will not be granted if credit has been received for: LAT 5200;
Instructor: Olson,S Douglas  
Description: Student may contact the instructor or department for information.

LAT 5004 Intermediate Latin Poetry for Graduate Students  
3 credit(s); prereq [5003 or equiv], grad student; Credit will not be granted if credit has been received for: LAT 5200;  
Instructor: Lechelt,Christine Elizabeth  
Description: Student may contact the instructor or department for information.

LAT 5004 Intermediate Latin Poetry for Graduate Students  
3 credit(s); prereq [5003 or equiv], grad student; Credit will not be granted if credit has been received for: LAT 5200;  
Instructor: Woods,Heather A  
Description: Student may contact the instructor or department for information.

LAT 5100 Advanced Reading: Urbs Scripta: Literary Representations of Rome  
3 credit(s), max credits 18, 6 completions allowed; prereq [3004, at least two years of college level Latin] or dept consent ;  
Instructor: Cole,Spencer E  
Description: Urbs Scripta: Literary Representations of Rome  This course will explore the relationship between Latin literature and an especially important context: the city of Rome. Our primary approach will be to consider how ancient Roman authors represent and respond to the material presence of the city. We will also study how Rome becomes a minifield of literary and historical associations. We will explore this vibrant hub of the ancient Mediterranean world from the perspective of the exile, the immigrant, the powerful, and the powerless. Drawing on contemporary theory, we will examine how texts and sites perpetuate collective memory and discuss the role of ‘place’ in the formation of cultural identity. Students will gain experience reading a range of authors and genres as well as a working knowledge of ancient Roman topography. Readings in Latin include selections from Cicero, Vergil, Livy, Ovid, Seneca, and Juvenal.  
Style: 100% Discussion.  
Grading: 30% mid exam, 30% final exam, 40% reports/papers.

LAT 5703 Epigraphy  
3 credit(s); prereq Grad student or instr consent credit will not be granted if credit already received for: Lat 5033;  
Instructor: Gallia,Andrew B  
Description: This course provides an intensive and comprehensive introduction to the field of Latin epigraphy. Students will develop the practical skills necessary to read and interpret various kinds of inscriptions, and will be asked to consider a variety of methodological approaches (literary, linguistic, and historical) to this evidence. We will read and discuss a number of longer epigraphic texts, including the “Laudatio Turiae,” the Lyon tablet, and the recently discovered SC de Piso Patre.  
Style: 100% Discussion.

LAT 8910 Seminar  
3 credit(s), max credits 30, 10 completions allowed; prereq Grad student;  
Instructor: Nicholson,Oliver  
Description: Student may contact the instructor or department for information.

Latin American Studies  
214 Social Sciences Tower  

LAS 3402W Modern Latin America 1825 to Present  
4 credit(s); Credit will not be granted if credit has been received for: HIST 3402W; Meets CLE req of Historical Perspective Core; meets CLE req of International Perspective Theme; meets CLE req of Writing Intensive;  
Instructor: STAFF  
Description: This course surveys developments in Latin America from the Enlightenment and Age of Independence to the rise of bureaucratic authoritarianism (ca. 1750-present). The course will focus on the rise of the nation-state, art, culture, and diplomatic relations within Hispanic America. Themes will include race, class, gender, sexuality, and space.  
Grading: 20% final exam, 50% reports/papers, 10% class participation, 20% other evaluation. Informal writing assignments.  
Exam Format: Essay

Law School  
285 Mondale Hall  

LAW 6003 Legal Research and Writing  
P-F only, 1-3 credit(s), max credits 6; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 6004 Property  
A-F only, 4 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 6008 Legislation  
A-F only, 3 credit(s);  
Instructor: Nussbaumer,Kirsten Ann  
Description: Role of legislation and the legislative process in American law. Relationship between legislation and the common law; formulation of legislative policy; statutory interpretation and statutory implementation.

LAW 6009 Criminal Law  
A-F only, 3 credit(s); prereq dept consent ;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 6010 Perspectives: 1L  
A-F only, 3 credit(s);  
Instructor: Ni Aolain,Fionnuala  
Description: Student may contact the instructor or department for information.

LAW 6011 International Law: 1L  
A-F only, 3 credit(s);  
Instructor: Gross,Oren  
Description: Student may contact the instructor or department for information.

LAW 6012 Corporations: 1L  
A-F only, 3 credit(s);  
Instructor: McDonnell,Brett H  
Description: Student may contact the instructor or department for information.

LAW 6013 Practice and Professionalism: 1L  
A-F only, 3 credit(s);  
Instructor: Thomas,Laura M  
Description: Student may contact the instructor or department for information.

LAW 6013 Practice and Professionalism: 1L  
A-F only, 3 credit(s);  
Instructor: Landsman,Maury S  
Description: Student may contact the instructor or department for information.

LAW 6013 Practice and Professionalism: 1L  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.
LAW 6013 Practice and Professionalism: 1L
A-F only, 3 credit(s);
Instructor: Melii, Stephen Edward
Description: Student may contact the instructor or department for information.

LAW 6013 Practice and Professionalism: 1L
A-F only, 3 credit(s);
Instructor: Cook, Nancy Louise
Description: Student may contact the instructor or department for information.

LAW 6014 Constitutional Law II
A-F only, 3 credit(s);
Instructor: Morrison, Fred L
Description: Student may contact the instructor or department for information.

LAW 6014 Constitutional Law II
A-F only, 3 credit(s);
Instructor: Carpenter II, Dale Allen
Description: Student may contact the instructor or department for information.

LAW 6015 Civil Procedure II
A-F only, 3 credit(s);
Instructor: Erbsen, Allan H
Description: Student may contact the instructor or department for information.

LAW 6025 Wrongful Convictions
A-F only, 2 credit(s);
Instructor: STAFF
Description: Causes of wrongful convictions. Students practice law in a safe, classroom setting. Run in conjunction with Innocence Project of MN.

LAW 6040 Perspectives on the Law
A-F only, 3 credit(s);
Instructor: Ni Aolain, Fionnuala
Description: Student may contact the instructor or department for information.

LAW 6041 Investment Management Law
A-F only, 2 credit(s);
Instructor: Royal, David James
Description: Student may contact the instructor or department for information.

LAW 6050 Commercial Paper
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6051 Business Associations/Corporations I
A-F only, 4 credit(s);
Instructor: STAFF
Description: The initial part of this course is an introduction to the general law of multi-person unincorporated business organizations, principally partnerships, limited partnerships and limited liability companies. Matters covered include the procedures for forming such organizations and the rights and obligations of the participants as among themselves and with respect to third persons. The remaining class hours constitute the first portion of the basic Corporations course, and will cover such matters as corporate organization; the distribution of powers among the corporate board of directors, its officers and its stockholders; the proxy system; control devices in the close corporation; and the fiduciary duties of directors, officers and controlling shareholders. Matters dealing with "corporate finance" (issuance of shares, payment of dividends, and corporate reorganizations) are covered Corporations II.

LAW 6055 Advanced Corporate Law
A-F only, 3 credit(s);
Instructor: STAFF
Description: This course will focus on corporate finance and reorganization. Specifically, the course will explore: methods of financing the corporate enterprise including various capital stock structures, term loans, bonds and debentures; payments to stockholders by way of dividends, redemptions or purchase of shares; and reorganizations including mergers, sales of assets and recapitalization. The course may also familiarize students with the use, advantages and disadvantages of economic analysis in resolving the problems and questions raised by discussion of the before-mentioned subject areas.

LAW 6057 Judicial Externship
P-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: Each student is assigned to a judge and serves as a part-time law clerk for one semester. Positions are available with federal district, bankruptcy, and magistrate judges, with state court of appeals and district court judges, and with tribal courts. Every effort is made to place students according to their expressed preferences among the courts. The students prepare research memoranda, observe judicial proceedings, and participate in the drafting of opinions and orders. A student will work for a judge for 100 hours (2 credits) or for 150 hours (3 credits), as agreed with the judge. In addition, students will periodically attend a one hour seminar in which readings on the judicial process will be discussed and will view a judicial training session. Enrollment is limited to 30 students. The periodic class meetings will be held during the noon hour. A complete schedule will be distributed at the first class meeting. You should arrange your class schedule so you have several large blocks of time available to work for a judge; free mornings are especially important for attending court hearings.

LAW 6059 Seminar: Constitutional Law, Theories of Freedom of Expression
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: JOUR 8678;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6100 Taxation I
A-F only, 3-4 credit(s);
Instructor: STAFF
Description: This basic course in federal income taxation introduces the student to the Internal Revenue Code and the income taxation of individuals through the following topics: definition of income, relevant accounting concepts, exclusions, deductions, income splitting, sales and dispossession of property, amortization, capital losses, and current issues of tax policy.

LAW 6103 Privacy
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: The collection and utilization of personal data has become increasingly important to our society in varied contexts including national security, commerce, health care, and information infrastructure. This course considers the emerging law of data privacy relevant to those contexts, especially in light of new technology. What is the appropriate nature and scope of individual privacy interests in the 21st century? How should the law balance those interests against legitimate competing priorities? Who should develop the law – courts, legislatures, or others? Students will learn about both relevant existing legal doctrine and theoretical or policy-based perspectives on data privacy issues.

LAW 6107 Bankruptcy
A-F only, 3 credit(s);
**LAW 6114 Partnership Taxation**  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description: Federal income taxation of partnerships and limited liability companies including formation, operation and management, distributions, allocations, sales and liquidations of entity interests, and terminations.

**LAW 6116 Pretrial Skills: Lawyering Process**  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description: This course focuses on pre-trial advocacy skills. Practically every lawyer interviews and counsels clients and engages in negotiation of transactions or resolution of disputes. Theoretical and practical exploration of these topics and other topics including fact development and case planning, alternative dispute resolution, discovery and motion practice form the basis for this course. Each topic will be explored with readings and simulated exercises. Specific topics may vary from year to year.

**LAW 6219 Evidence**  
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;  
Instructor: STAFF  
Description: A study of relevance, admission and exclusion of evidence, direct and cross-examination, judicial notice, hearsay, expert testimony, burdens of proof and presumptions, privileged communications. A study of relevance, admission and exclusion of evidence, direct and cross-examination, judicial notice, hearsay, expert testimony, burdens of proof and presumptions, privileged communications.

**LAW 6225 Basic Patent Litigation**  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description: The course addresses a variety of legal issues relating to patent litigation, including choice of law, personal jurisdiction, subject matter jurisdiction, venue, declaratory judgment actions, Rule 11, specificity of infringement allegations in the complaint, claim construction evidence and hearings, infringement theories in the litigation context, principal affirmative defenses used in litigation, injunctions, damages, willfulness, and other legal issues. The course addresses a variety of legal issues relating to patent litigation, including choice of law, personal jurisdiction, subject matter jurisdiction, venue, declaratory judgment actions, Rule 11, specificity of infringement allegations in the complaint, claim construction evidence and hearings, infringement theories in the litigation context, principal affirmative defenses used in litigation, injunctions, damages, willfulness, and other legal issues.

**LAW 6241 First Amendment Law**  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description: An in-depth inquiry into the First Amendment, including both the doctrine and theory of free expression. Topics will include political incitement and public fora; hate speech; obscenity and pornography; campaign finance reform and commercial speech; mass media regulation and access to government and compelled speech and associational rights. The religious clauses may also be covered. Religion clause coverage may include school prayer and parochial school vouchers; religious exemptions and accommodation; and government-sponsored religious symbols.

**LAW 6403 Environmental Law Capstone: Brownfields Redevelopment and Litigation**  
A-F only, 5 credit(s);  
Instructor: STAFF  
Description: We will explore the philosophical foundations and common law roots of U.S. environmental law, and the major statutes dealing with clean air, clean water, endangered species, and hazardous waste cleanup the Clean Air Act, Clean Water Act, Endangered Species Act, and CERCLA/Superfund. Statutory objectives and regulatory strategies will be examined and contrasted, as will the relative successes of these programs. Important legal and public policy themes will recur in a variety of settings: decision making in the face of scientific uncertainty, the role of cost-benefit analysis, and the relative distribution of environmental burdens and pursuit of environmental justice. Alternatives to conventional regulatory approaches will be explored. We will also discuss important developments in the constitutional framework for environmental law.
Instructor: Klass,Alexandra B.
Description: Student may contact the instructor or department for information.

LAW 6404 Health Law Compliance Capstone
A-F only, 4 credit(s);
Instructor: Hall JD,Ralph F.
Description: Student may contact the instructor or department for information.

LAW 6405 Labor and Employment Law Capstone
A-F only, 4 credit(s);
Instructor: Cooper,Laura J
Description: Student may contact the instructor or department for information.

LAW 6600 Professional Responsibility
A-F only, 2-3 credit(s);
Instructor: STAFF
Description: Examination of the role and function of the legal profession in our society and the principles, standards and rules governing ethics of the profession and their enforcement.

LAW 6601 International Business Transactions
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6603 Intellectual Property
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq dept consent ;
Instructor: STAFF
Description: This course provides a broad survey of the laws governing most areas of intellectual property including trademark, trade secret, copyright, computer chip protection and some patent law, as well as a survey of laws governing unethical and deceptive business practices. An examination of the extent and limits of federal preemption of state laws governing intellectual property rights forms a secondary (but important) part of the course. There are no prerequisites to this course. An interest in business practices and problems arising from rivalry among business firms will be helpful as will be an interest in stimuli to innovation in a competitive economy. Most of the material is case law, but the coursework will require that students become familiar with statutory provisions governing trademarks, copyrights, patents and computer chip protection.

LAW 6604 Family Law
A-F only, 3 credit(s);
Instructor: STAFF
Description: Family Law. This course examines how the law regulates the creation and dissolution of family relationships, and the legal rights and responsibilities that family members have because of their familial status. These issues are examined in both modern and historical contexts, with particular emphasis on marriage. Topics include: interracial marriage and adoption, same-sex marriage and parenthood, marriage between blood relatives, polygamy and common law marriage, marriage and parenthood under the law of slavery, legitimacy and illegitimacy, surrogate motherhood, economic consequences of divorce, dissolution of nonmarital relationships, termination of parental rights, federal benefits and disabilities tied to family status, the prohibition on interspousal contracts for domestic services, the marital rape exemption, domestic violence, child abuse, and child custody and support.

LAW 6606 Administrative Law
A-F only, 3 credit(s);
Instructor: STAFF
Description: Law governing judicial review of the decisions of government officials and agencies. Decisions of federal and state officials subject to various kinds of judicial review range from regulatory decisions by public service commissions governing the rates of suppliers of electricity and local telephone service to decisions governing entitlement to benefits under welfare programs. Some decisions have wide-ranging social and economic effects such as rulemaking decisions under the Clean Air Act while the impact of other decisions may be limited to a few individuals. The course is designed to assist motivated students to acquire the skills necessary to master a complex and difficult body of law.

LAW 6608 Trademarks
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6609 International Intellectual Property
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6610 Unfair Competition
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: Unfair Competition (2 credits): This course provides an overview of the law of unfair competition. Likely topics include false advertising and product disparagement; tortious interference with contract and with prospective business relations; misappropriation, idea law, and trade secret law; the right of publicity; cybertrespass; and federal preemption of state unfair competition laws. The course does not provide comprehensive coverage of antitrust, trademarks or trade dress, or consumer protection law.

LAW 6612 Antitrust and Intellectual Property
A-F only, 2 credit(s);
Instructor: Cotter,Thomas Francis
Description: Student may contact the instructor or department for information.

LAW 6615 Jurisprudence
A-F only, 3 credit(s);
Instructor: STAFF
Description: This course will be a general survey course of American legal movements and conceptions of the law. The course will examine foundational legal questions: What is law, why are we obligated to follow laws, and when if ever are we not? What is the Rule of Law? When if ever can we condemn a law as unjust and, if so, must we obey it? We will also examine how different legal movements have attempted to answer these questions from the beginnings of "legal science" and formalism; to the Legal Realists and the responses to them; to the more recent movement to unite law with moral philosophy; to Critical Legal Studies; and responses to the Critical Studies movement. We will compare and contrast these movements with basic conceptions of the law-positivism and natural rights.

LAW 6627 International Tax
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: The course examines U.S. taxation of business and investment activities of foreign individuals and corporations in this country and those of domestic individuals and corporations that invest and conduct business abroad. Specific topics include income source rules, branch profits tax, foreign investments in the U.S. real estate, foreign tax credit, and U.S. tax treaties.

LAW 6628 Advanced Trial Practice
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: This course will be to help students learn to recognize and anticipate a large number of important evidentiary issues which can arise during a trial, and to help them learn how to deal with the issues when they arise. Students will perform direct and cross examinations, opening and closing statements and voir dire. Students will be expected to write brief motions in limine and short memoranda on evidentiary issues to learn to
present concise persuasive memoranda to a court before and during trial.

LAW 6629 Judicial Process and Administration
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6631 Employment Discrimination
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6634 Regulated Industries
A-F only, 3 credit(s);
Instructor: Hickman, Kristin E
Description: Student may contact the instructor or department for information.

LAW 6644 Law and Economics
A-F only, 3 credit(s), max credits 6; prereq dept consent;
Instructor: STAFF
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 completion allowed;
Instructor: Tonry, Michael H
Description: Student may contact the instructor or department for information.

LAW 6703 Seminar: Local Economic Development
A-F only, 2 credit(s);
Instructor: Street, Nena Fox
Description: Student may contact the instructor or department for information.

LAW 6800 Seminar: International Contracts
A-F only, 3 credit(s);
Instructor: STAFF
Description: The seminar presents students with a simulated international business transaction. Students will be asked to represent the businesses involved. They will be asked to inform themselves about the legal and practical problems involved in the transaction, and then to negotiate a contract dealing with those problems.

LAW 6808 Seminar: Street Law
A-F only, 2 credit(s);
Instructor: STAFF
Description: This seminar engages law students in service to the community through teaching law to students in local schools. It also increases law student knowledge of the areas of law that are of interest to high school students such as criminal law and procedure, Constitutional law, and practical law (landlord tenant law, consumer law, family law & employment law) increases law student skills in explaining law to non-lawyers and builds professionalism.

LAW 6815 Seminar: Inter-American Human Rights System
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6817 Seminar: Advanced Estate Planning
A-F only, 2 credit(s);
Instructor: STAFF
Description: Building on the student's knowledge of the underlying estate, gift, and income tax systems, this course will focus on the day to day life of the estate planning lawyer, from the initial client interview and analysis of financial data to the implementation of appropriate planning techniques based upon a client's situation and assets to preparation of an estate tax return (and everything in between).

LAW 6818 Seminar: White Collar Crimes
A-F only, 2 credit(s);
Instructor: STAFF
Description: Overview of theory and practice of white collar litigation in the criminal arena. Survey the basic principles and theories underlying this area of law.

LAW 6822 Seminar: Legislative Process
A-F only, 2 credit(s);
Instructor: STAFF
Description: This seminar will be studying "Legislative Process" with a definite hands on approach. Using selective readings, Supreme Court rulings on "Legislative Intent", MN Court rulings and legislative materials from MN and federal Legislatures as foundation. We will go to the MN State Capitol meet with House & Senate political leaders.

LAW 6827 Seminar: Women's International Human Rights
A-F only, 2 credit(s);
Instructor: STAFF
Description: This seminar deals with the history of women's human rights, feminist perspectives on international law, the Women's Convention, reproductive rights, domestic violence, female genital mutilation, trafficking in women, economic rights, women in development, women refugees, women's human right in the U.S., and the role of nongovernmental organizations.

LAW 6833 Alternative Dispute Resolution
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6837 Seminar: Contract Drafting
A-F only, 2 credit(s);
Instructor: STAFF
Description: This seminar will take the contract principles that students learned in their first year and build upon them in a practical way. Students will review and revise contracts, draft sample provisions, draft contracts from "scratch" and discuss options for managing risk through effective drafting. This seminar will take the contract principles that students learned in their first year and build upon them in a practical way. Students will review and revise contracts, draft sample provisions, draft contracts from "scratch" and discuss options for managing risk through effective drafting. Prerequisites: None

LAW 6839 Seminar: Supreme Court
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 6841 Seminar: Constitutional Powers of the Presidency
A-F only, 2 credit(s);
Instructor: STAFF
Description: This seminar analyzes the constitutional scope of presidential authority, particularly when it conflicts with prerogatives of the legislative and judicial branches. Topics include war powers; homeland security; intelligence gathering; control of foreign policy; impeachment; presidential elections and succession; presidential appointments, removals, and status of
LAW 6842 Seminar: Advanced Criminal Procedure  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: This is a seminar in advanced criminal procedure. The course will allow students to consider more deliberately some of the issues covered in the basic criminal procedure course and to experience the practical realities of practicing in the field of criminal law. By participating in mock pretrial hearings each week, we will explore a number of issues that typically arise during the course of a criminal prosecution. Course requirements include three written papers: two memoranda of law, (5 pages each) and one report and recommendation (15-20 pages), and participation in three classroom simulations of evidentiary hearings.

LAW 6843 Seminar: Structured Finance  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: In its most basic form, securitization involves pooling, structuring, and selling assets (i.e., predictable cash flows such as loans), derived from an originator -- a financial institution or other entity, to a special legal entity that is "bankruptcy remote." The seminar will begin by introducing the concept of securitizing (or monetizing) assets, will then review legal and accounting issues related to securitization and structured finance, will look at troubled securitization transactions including issues related to the bankruptcy of the originator, will address three independent case studies dealing with the first time issuer, the established company and industry, and the securitization of development loans, and will conclude by offering insights into the future of securitization. In its most basic form, securitization involves pooling, structuring, and selling assets (i.e., predictable cash flows such as loans), derived from an originator -- a financial institution or other entity, to a special legal entity that is "bankruptcy remote." The seminar will begin by introducing the concept of securitizing (or monetizing) assets, will then review legal and accounting issues related to securitization and structured finance, will look at troubled securitization transactions including issues related to the bankruptcy of the originator, will address three independent case studies dealing with the first time issuer, the established company and industry, and the securitization of development loans, and will conclude by offering insights into the future of securitization.

LAW 6844 Seminar: Real Estate Transactions  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: This course is intended to be a "hands on" program which would expose the law students to the real world issues, documentation, and experiences that an attorney in the area of commercial real estate law would encounter. Much of the course material is similar to the type of training and education that is provided to young associates at law firms such as Kirkland & Ellis. There would be both an emphasis on the theory behind the provisions that are contained in various transaction documents as well as the realistic results of negotiation and their effect upon actual transactions. The course would require the students to do actual drafting and preparation of real estate documentation, participate in negotiation sessions between students with follow up discussion regarding the results of those negotiations, and case studies evaluating real estate investment. The students should finish the class with a well-rounded understanding of basic commercial real estate documentation and transactions. The class will also provide an excellent foundation for all transactional lawyers both real estate and otherwise. The major topics to be addressed during the seminar include the following: 1. Real Property Contracts and Conveyance Documents; 2. Mortgages, Deeds of Trust and other Loan Documents; 3. Leasing Documentation; 4. Title Insurance Surveys; 5. Real Estate Markets, Securitization and Development; and 6. Real Estate Investments and Analysis.

LAW 6846 Seminar: Philosophy of Punishment  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 6851 Seminar: Advanced Legal Research  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: Limited enrollment seminar (30 students) emphasizing legal research strategies and practical use of secondary source materials, administrative law materials, government documents and legal non-legal databases. Students are expected to complete short research problems and produce a research guide in a specialized area. Attendance is required. This course satisfies the senior writing requirement.

LAW 6852 Seminar: Financial Institutions  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: During this seminar, students will be introduced to various aspects of financial institutions law, including: Financial Holding Companies and new powers under the Gramm-Leach-Bliley Act of 1999 such as securities and insurance, history and themes of bank and thrift regulations, mega mergers and competition, lending and trust powers, branching, consumer regulation and the Community Reinvestment Act. Issues discussed will be consistent with the kinds of issues that banking lawyers would expect to see in a regulatory practice. As part of the coursework, each student will research and write a paper on a banking issue or issues of current concern.

LAW 6853 Law, Biomedicine, and Bioethics Seminar  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 6857 Corporate Tax  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description: An introduction to Subchapter C of the Internal Revenue Code, the "crown jewel" of the Tax Code, and the taxation of shareholders and corporations. The class will include an in-depth study of Section 351 and corporate formations; the capital structure of a corporation; non-liquidating distributions including dividends and Section 301; redemptions of corporate stock including Section 302; both taxable and tax-favored acquisitions, including Section 368 re-organizations; and, corporate divisions such as spin-offs under Section 355. The course will not address international transactions, but will attempt to emphasize real world, current corporate tax problems.

LAW 6861 Seminar Transnational Legal Fields and their Impact in the United States and the World  
A-F only, 2 credit(s);  
Instructor: Shaffer,Gregory Charles  
Description: Student may contact the instructor or department for information.

LAW 6865 Seminar: Law and Economics Workshop  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: This seminar/workshop brings in leading scholars in one designated field to present papers. Each week, a scholar presents her paper; students are required to write short (1-3 page) critiques and discussion questions for each paper, and participate in the class discussions. In 2006, the field was Behavioral Law and Economics. In 2007, the field will be Corporate Governance.

LAW 6867 Seminar: International and Foreign Legal Research  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: Limited enrollment seminar (20 students)
emphasizing legal research strategies and practical use of secondary source materials in foreign and international law. Students are expected to complete weekly research exercises and a final exam consisting of research problems. Attendance is required. This course does NOT satisfy the senior writing requirement.

**LAW 6868 Seminar: Business/Environmental Law**
A-F only, 2 credit(s); prerequisite: B.S. in business, environmental, or legal studies
**Instructor:** STAFF
**Description:** This seminar covers topics from business transactions, corporate law, and commercial property rights. It focuses on the legal aspects of doing business in foreign countries.

**LAW 6872 Immigration Law**
A-F only, 3 credit(s);
**Instructor:** STAFF
**Description:** This seminar covers the fast-growing area of immigration law and the legal issues that arise when students invest in digital evidence and legal processes in criminal and civil cases.

**LAW 6885 Seminar: Advanced Environmental Law**
A-F only, 2 credit(s);
**Instructor:** STAFF
**Description:** This seminar introduces students to the practice of lawyering in a life-like setting. Each student handles approximately three live cases, including topics such as family, administrative, human rights, tort, consumer, and contract law.

**LAW 6888 Seminar: Learning the Law by Avoiding it in the Process**
P-F only, 1 credit(s);
**Instructor:** STAFF
**Description:** This seminar decimates the facts of actual cases to understand the law. They use logic, instinct, experience, and some unavoidable nonsense to arrive at conclusions. Students analyze the substance of the law and its involvement in its making.

**LAW 6891 Seminar: Tax Policy**
A-F only, 2 credit(s);
**Instructor:** STAFF
**Description:** This seminar covers the basics of tax policy and its impact on society.

**LAW 6892 Seminar: Comparative Criminal Procedure**
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
**Instructor:** STAFF
**Description:** This seminar explores the similarities and differences between legal systems in several foreign countries, focusing on criminal law and procedures.
Students begin working a claim by obtaining primary source material (police reports, forensic reports, court pleadings, transcripts, appellate briefs, and opinions. At that point, many students will have the opportunity to talk to the trial and appellate attorneys who had previously worked on the case. After reviewing all of the source material, if the case still appears to be a viable one, the students will often visit the inmate in prison, giving them an opportunity to meet the inmate in person and question them about their claim. Students will also search for new evidence, and may visit crime scenes and interview witnesses. Students will be expected to prepare written summaries of what they do, and to present and discuss those experiences during class. Prerequisites: None

LAW 7015 Clinic: Worker Rights
A-F only, 2-4 credit(s), max credits 8;
Instructor: STAFF
Description: This two-semester course provides an introduction to practice in employment law with an emphasis on assisting low-wage workers such as temporary or day laborers and immigrant workers. Clinic participants work in collaboration with a non-profit Workers Center in the Twin Cities that is part of a nationwide movement advocating for and organizing low-wage and immigrant workers. These workers? cases typically involve wage and hour violations and national origin/race discrimination. Students work together with the Workers Center to consider a variety of methods of addressing the workplace problems, including work by non-lawyer advocates, organizing and collective action, and the legal services our clinic provides. Clinic students are involved in client intake in various community settings, particularly in the Latino, Somali and Hmong immigrant communities. In addition to direct client representation, field work may also include community legal education and working with non-legal advocates, labor unions, and labor organizers. The clinic attempts to have at least one complex case involving discrimination or retaliation on its docket during the year. The clinic has a three-hour class component in the first semester and a two-hour session in the second semester. Class work involves training in the core lawyering skills of interviewing, counseling, negotiation, discovery, motion practice and legal ethics in practice. Class work also includes substantive reading and discussions on the efficacy of traditional labor and employment law for meeting the workplace needs of marginalized workers and strategies for change. Classes also discuss new client interviews conducted both by our students and lay advocate volunteers and interns at the Workers Center intake sites. Students do case rounds and discuss questions that come up in their case work and organizing. Prerequisites: None

LAW 7016 CL: Workers Rights Directors
A-F only, 2 credit(s), max credits 4;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7018 Intercollegiate Trial Team
A-F only, 2 credit(s); prereq Trial practice;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7020 CL: Special Education Law
A-F only, 2-3 credit(s), max credits 6;
Instructor: STAFF
Description: The Special Education Law Clinic offers advanced-standing law students the opportunity to work with and represent children with disabilities and their families. The law students, working under the supervision of an experienced school law attorney, assist with special education legal questions, reviewing special education documents, participating in conciliation conferences and mediations, working informally with schools to resolve disputes, and provide representation in state-level administrative complaints, hearings, and court actions. Law students may also participate in research projects and legislative and administrative proceedings. The Special Education Law Clinic is a two-semester program. It contains a classroom component mainly during the first semester. Throughout the program, law students will have a chance to meet and hear from professionals in the special education law community, including student advocates and attorneys, opposing counsel, school district staff, and state-level administrative decision makers.

LAW 7021 CL: Special Education Director
A-F only, 2 credit(s), max credits 4;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7025 ABA Moot Court Competition Team
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7026 ABA Moot Court Competition Director
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7027 ABA Moot Court Competition Managing Director
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7035 Environmental Law Moot Court
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7036 Environmental Law Moot Court Director
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7037 Environmental Law Moot Court Competition Team
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7038 Environmental Law Moot Court Managing Director
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7045 Labor Law Journal
P-F only, 1-3 credit(s), max credits 6; prereq 3rd yr, dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7046 Labor Law Journal Staff
P-F only, 1-4 credit(s), max credits 4; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7047 Wagner Moot Court Competition Team
A-F only, 1 credit(s), max credits 2;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7055 Maynard Pirsig Moot Court
This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
LAW 7056 Maynard Pirsig Moot Court Director  
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7057 Maynard Pirsig Moot Court Research Director  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7058 Maynard Pirsig Moot Court Managing Director  
A-F only, 1 credit(s), max credits 2;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7066 National Moot Court Director  
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7067 National Moot Court Administrative Director  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7068 National Moot Court Competition Team  
A-F only, 1 credit(s), max credits 2;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7075 International Moot Court  
A-F only, 1-3 credit(s), max credits 3; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7076 International Moot Court Director  
A-F only, 1-4 credit(s), max credits 4;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7077 International Moot Court Administrative Director  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7078 International Moot Court Competition Team  
A-F only, 1 credit(s), max credits 2;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7085 Intellectual Property Moot Court  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7086 Intellectual Property Moot Court Competition Team  
A-F only, 1-2 credit(s), max credits 2;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7087 Intellectual Property Moot Court Director  
A-F only, 1-2 credit(s), max credits 2; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7092 CL: Bankruptcy Clinic  
A-F only, 1-4 credit(s), max credits 4;  
Instructor: STAFF  
Description: The Consumer Bankruptcy Clinic offers students the opportunity to advise and represent individuals in serious financial difficulty. This two-semester, four-credit course includes a classroom component, preparing the students to counsel clients about consumer bankruptcy and discussing important portions of the Bankruptcy Code and Rules. The majority of the course involves actually representing clients in financial difficulty. This includes advising clients of their options, communicating with their creditors, and filing bankruptcy cases (either Chapter 7 or 13). Students will also have the opportunity to represent clients in adversary proceedings, including discovery and trial as well as settlement negotiations with both creditors and the U.S. Trustee. Occasionally, students represent individual creditors as well.

LAW 7093 CL: Bankruptcy Clinic Director  
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7094 Civil Rights Moot Court Administrative Director  
A-F only, 1-2 credit(s), max credits 2;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7095 Civil Rights Moot Court  
A-F only, 1-2 credit(s), max credits 3; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7096 Civil Rights Moot Court Director  
A-F only, 1-4 credit(s), max credits 4;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7097 Civil Rights Moot Court Competition Team  
A-F only, 1 credit(s), max credits 4, 4 completions allowed; prereq dept consent;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

LAW 7098 CL: Indian Child Welfare Act  
A-F only, 1-7 credit(s), max credits 14;  
Instructor: STAFF  
Description: The Indian Child Welfare Act Clinic is a two-semester clinic offered annually since 1996. The clinic gives students practical experience in handling family law and juvenile law cases with a special emphasis on the federal Indian Child Welfare Act (ICWA) passed by Congress in 1978. Weekly classroom sessions are held in conjunction with the Child Advocacy Clinic and cover such topics as interviewing, negotiation, and motion practice. Students handle two to three cases over two semesters. Cases are referred from the Indian
Child Welfare Law Center and students work closely with Shannon Smith, the Executive Director of ICWA, and other Center staff attorneys. These cases are selected to provide students with a variety of substantive and procedural experiences. The clinic course is a two-semester program beginning in the fall semester. Students earn a total of four credits allocated over two semesters.

LAW 7099 CL: Indian Child Welfare Clinic Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7100 Law Review Editors
P-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq instr consent; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7101 Law Review Associate Editors
P-F only, 2 credit(s), max credits 4; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7102 Law Review Staff Member
P-F only, 1-2 credit(s), max credits 4; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7200 Law and Inequality Journal Editor
P-F only, 1-6 credit(s), max credits 9, 4 completions allowed; prereq instr consent; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7201 Law and Inequality Journal Associate Editor
P-F only, 2 credit(s), max credits 4; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7202 Law and Inequality Journal Staff
P-F only, 1-3 credit(s), max credits 6; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7246 CL: Housing
A-F only, 3 credit(s); Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7247 CL: Housing Clinic Director
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed; prereq dept consent; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7300 Minnesota Journal of International Law
P-F only, 1-6 credit(s), max credits 9, 4 completions allowed; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7302 Minnesota Journal of International Law Staff
P-F only, 1-3 credit(s), max credits 6; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7500 CL: Misdemeanor Defense
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed; Instructor: STAFF
Description: The educational goals of this clinic are knowledge, an understanding of, and the ability to practice in a criminal justice system. This course involves supervised student representation of persons charged with misdemeanor and gross misdemeanor offenses in Hennepin County District Court. Student attorneys represent clients at all stages of the criminal process, including arraignments, pretrial conferences, and trials. Student attorneys attend at least three arraignment sessions where they interview individuals who have charges pending against them on that day's arraignment calendar. The student attorney evaluates the charges, negotiates with the City Attorney, and appears with the client in court. Student attorneys in the clinic follow up on cases they open up at arraignments, and some of these cases may go all the way through a jury trial. A weekly two-hour lecture is devoted to misdemeanor laws and procedure, trial and advocacy skills, evidence problems as related to criminal law, and other areas of law and procedure related to the local criminal justice system. Student attorneys are required to participate in one ride-along with a police department in the metro area. Prerequisites: None

LAW 7501 CL: Misdemeanor Clinic Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7550 CL: Misdemeanor Prosecution
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed; Instructor: STAFF
Description: The educational goals of this clinic are knowledge, understanding of, and the ability to practice in a criminal justice system. This course involves the supervised prosecution of individuals charged with petty misdemeanors, misdemeanors, and gross misdemeanors in Ramsey and Hennepin County District Court. Prosecution students are supervised by prosecutors in several different jurisdictions in Hennepin and Ramsey District Court. Students handle cases at all stages of the criminal process, including arraignments, pretrial conferences and court trials. The weekly two-hour class component of the clinic includes lectures, simulations, and role playing. The lectures are on substantive and procedural aspects of criminal law, and on skills performance. The simulations and role playing involve the pre-trial and trial skills necessary to be an effective advocate in the criminal justice system. The students are also required to participate in one ride-along with a police department. Prerequisites: None

LAW 7572 Federal Defense Clinic
A-F only, 3 credit(s); prereq Criminal law, criminal procedure/evidence; evidence course may be enrolled in concurrently; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7600 Minnesota Journal of Law, Science, and Technology
P-F only, 1-6 credit(s), max credits 6, 4 completions allowed; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7675 CL: Child Advocacy
A-F only, 1-7 credit(s), max credits 7; Instructor: STAFF
Description: The Child Advocacy Clinic is a two-semester clinic offered annually since 1995. The clinic gives students practical experience in handling family law and juvenile law cases with an emphasis on children's rights. Weekly classroom sessions cover such topics as interviewing, negotiation, and motion practice. Students earn a total of four credits to be allocated between the
semesters. Beginning in the fall semester, students handle three to four cases over the academic year. The cases are selected to provide students with a variety of experience in pretrial procedure, negotiation, discovery, and courtroom practice. The Child Advocacy Clinic also has a project with the Hennepin County Public Defender’s Office to provide representation to juveniles in CHIPS (Children in Need of Protection and Services) matters in juvenile court. Additional cases involve family court custody and Guardian ad Litem representation for the Hennepin County Guardian ad Litem program. The clinic is designed with a classroom component, a simulation component and an actual case-handling component in family and juvenile court. The classroom and simulation portions of the course occur during the first semester. The classroom component consists of topics specifically relating to children’s issues including child development and interviewing children. The simulation component revolves around mock cases designed to familiarize students with family and juvenile court procedure. The actual case component of the course stretches over both semesters.

LAW 7676 CL: Child Advocacy Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent; Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7842 CL: Immigration and Human Rights
A-F only, 2-7 credit(s), max credits 14;
Instructor: STAFF
Description: The Immigration Law Clinic handles immigration law matters, primarily applications for political asylum, withholding of removal, and Article 3 claims under the Convention Against Torture. Students will interview clients, research country conditions, write legal memoranda on asylum issues, and prepare and present claims to the Immigration and Naturalization Service, the Immigration Court, and the Board of Immigration Appeals under the student practice rule. Each student will handle up to two asylum cases. Students can choose from cases presented affirmatively to the Immigration and Naturalization Service and those presented defensively before the Immigration Court. Students appearing before the Court will handle case and client preparation and courtroom appearances. It is preferred that students have prior experience in or exposure to asylum law or other aspects of immigration law, but neither is required. Enrollment is generally limited to six students. Interested students should write a brief statement of interest and/or experience. Students will be notified if they have been selected for the Immigration Law Clinic shortly after finals end. Students who participate in the Immigration Law Clinic will add the clinic through the drop/add process in the Fall.

LAW 7843 CL: Immigration Clinic Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7850 CL: Public Interest Law
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

LAW 7860 CL: Multi-Profession Business Law
A-F only, 2-4 credit(s), max credits 8;
Instructor: STAFF
Description: The Minnesota Multi-Profession Business Law Clinic is a two-semester, 6-credit experience for 3Ls. Students enrolled in the clinic have the opportunity to gain broad transactional experience working with startup businesses and entrepreneurial clients. Students work with clients whose legal needs are transactional. Transactional practice includes the creation and interpretation of contracts and agreements. It also includes strategizing about legal issues of business formation, management, and governance. The delivery model is different from other clinics at the law school in several respects. Typically, law school clinic clients need assistance to resolve a dispute with another person or a government entity. Dispute resolution is not a part of clinic practice in the Minnesota Multi-Profession Business Law Clinic. As participants in this multi-profession clinic, students work with attorneys, accountants, and business consultants. This aspect of clinic practice closely replicates the practice of business law. Experienced business law and corporate group attorneys from several law firms and accounting firms supervise teams of law students working with clients who apply for clinic services. The 42-hour transactional skills curriculum component of the clinic includes extensive practice in negotiation and drafting, as well as self-assessments of problem solving and communication styles. The curriculum also includes segments on client interviewing and negotiation ethics. Students are encouraged to learn about themselves as practitioners.

LAW 7950 CL: Tax Clinic
A-F only, 2-4 credit(s), max credits 4;
Instructor: STAFF
Description: The Tax Clinic, first offered in 1981, is composed of two components. First, the clinic provides an opportunity for law students to represent low income taxpayers who have a controversy with the IRS. Representation can occur at audit, in the Appeals Office, in the collection process, before the U.S. Tax Court or, on occasion, before the U.S. District Court or 8th Circuit. In addition representation may also extend to controversies with the MN Department of Revenue. Clinic students do not prepare tax returns. The clinic receives client referrals from the IRS and Tax Court in addition to those that come from community organizations (such as free tax assistance sites). Students in the clinic are also asked to participate in community education and outreach, since approximately one-third of our clients speak English as a second language. A clinic seminar meets weekly for both semesters. The seminar provides training in lawyering skills, such as interviewing, counseling, negotiation, and professional responsibility. In addition, guest speakers at the seminar from the IRS, the Minnesota Department of Revenue, and practicing bar provide useful information about the practice of tax law. Students must have taken (or be concurrently enrolled in) Federal Tax Procedure. Tax I is encouraged as well. Each year three students are selected to serve as directors in the clinic during their third year. Each summer the Tax Clinic hires three students to work full-time in the clinic. If you are interested in serving as a director during your third year for academic credit or a summer job for pay, preference is given to students enrolled in the Tax Clinic (i.e., enroll in your second year to be eligible).

LAW 7951 CL: Tax Clinic Director
A-F only, 1-4 credit(s), max credits 4; prereq dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Learning and Academic Skills
104 Eddy Hall

LASK 1001 Mastering Skills for College Success
2 credit(s);
Instructor: STAFF
Description: Study smarter ... not harder. Despite being bright and working hard, many students at the U. find they are unable to get the most out of their academic efforts; working hard doesn't always translate into the grades and performance they are looking for. LASK 1001 [Mastering Skills for College Success] was designed to address skills, strategies and approaches to help students become more efficient & effective in their academic efforts. The course focuses on 5 key areas for academic success: 1. Active Learning approaches; 2. Self-awareness & Learning Style; 3. Academic Skills (in areas such as note taking, exams, memory, reading, papers, etc.); 4. Balance Skills (in areas such as time & stress management); and, 5. Campus Resources (awareness & utilization). LASK 1001
This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
balances lecture with hands-on application to help students get the most from their efforts.

**Style:** 40% Lecture, 30% Discussion. Applied activities

**Grading:** 30% reports/papers, 14% quizzes, 5% in-class presentation, 51% problem solving.

**Exam Format:** Multiple choice, True/False, Essay

### LASK 1101 Academic Refresher

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

**Instructor:** STAFF

**Description:** Failing behind? Always playing ‘catch-up’? Received an academic alert? Stressed about how to make the grades you need? Sometimes academic progress doesn’t go as planned and students struggle. LASK 1101 [Academic Refresher] is a Mid-Semester (Term B) course designed to assist students over the final 7 weeks of the semester who are experiencing concerns about their academic progress. Through individualized planning and course assignments, students work with academic success consultants to develop & put into action a personal plan for success. Course focus is mainly on reaching academic goals for the current semester, however, students also learn skills and strategies to build ongoing success.

**Style:** 40% Lecture, 40% Discussion, 20% Small Group Activities. LASK is an individualized study course. You meet weekly with an academic success consultant to develop and carry out a personal plan for improving your grades.

**Grading:** 35% special projects, 15% written homework, 25% attendance, 25% class participation. Applied activities

### LASK 1102 Academic Success

**S-N only, 2 credit(s), max credits 4; prereq instr consent; preference given to students on academic probation or returning from academic suspension**

**Instructor:** STAFF

**Description:** This course was developed mainly for students on academic probation [it is also an excellent option for students returning to campus from an academic suspension or who may have concerns about being placed on probation]. LASK 1102 offers skilled assistance in identifying barriers in academic performance and developing plans for effective, ongoing scholarship. Information, skill development & performance enhancement are emphasized. Course objectives are achieved through weekly didactic instruction, assignments & small group participation.

**Style:** 45% Lecture, 5% Film/Video, 20% Discussion, 30% Small Group Activities.

**Grading:** 25% special projects, 40% attendance, 35% class participation.

---

**Liberal Studies 20 Classroom Office Building**

### LS 5100 Liberal Studies Seminar: Women's Leadership Journey

**A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent**

**Instructor:** Hagberg, Janet M. Olson

**Description:** <b>Women's Leadership Journey</b> - This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. For women who have achieved leadership or success and are ready to find new purpose and meaning through study and reflection. An opportunity to look at yourself as a whole person instead of a worker or leader, and to explore your life across the spectrum of relationship, career, health, and spirituality. Through reading and research gain a deeper understanding of your purpose and next steps in your leadership journey.

### LS 5100 Liberal Studies Seminar: Escape Artists and Culture Bearers

**A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent**

**Instructor:** Husom, David Harold

**Description:** <b>Escape Artists and Culture Bearers: The American Fault Line</b> - Explorers, visionaries, escape artists--American history is full of them. They've shaped politics, art, literature and social change. Consider what it means to defy social norms in American terms, reading about leaders of revolt from Nat Turner's slave revolt to women leaders of labor resistance. We'll consider escapist who traveled into southseas oceans and European civilizations--Melville, Edith Wharton--and the fiction they wrote about their voyages. The lives of visionaries, such as the Mormon founder, Joseph Smith, will be examined. Contrasting to this impulse is that to make community, to replicate cultures, to celebrate union. Some of the country's finest art and literature have arisen from communities very alive to their identity--Native American bands; early New England villages and the transcendental community of Brook Farm, the Harlem Renaissance and its community of writers and artists; the communities who worked for civil rights in the South, and planned communities built by businessmen on the Iron Range. We'll probe the fault line where community disintegrates--Native American white-run boarding schools; suburban distress, and where the escape artist turns into a lawless renegade. What will emerge are some of the country's most exposed and most enduring traits.

### LS 5100 Liberal Studies Seminar: Exploring Life's Foundations

**A-F only, 2 credit(s), max credits 24, 24 completions allowed; prereq dept consent**

**Instructor:** Dikel, William Robert

**Description:** <b>Exploring Life's Foundations</b>- The philosopher, Socrates, famously remarked, "The unexamined life is not worth living." Although we all have basic foundations upon which we, consciously and unconsciously, build our life experiences, these foundations often tend to be taken for granted and remain mostly unexplored. Examine the core fundamentals upon which we define ourselves, individually and as a society, through readings, class discussions and experiential activities, and gain an understanding of the basic, usually unquestioned and largely unexamined framework that underlies the unique perceptual framework and experiences of ourselves and of others. Explore the ideal methods of gaining knowledge within that context, and in the process delineate the basic foundations of knowledge, perception and belief. Through shared exploration, utilize multiple approaches that encourage student-centered learning and integrate source materials from the fields of Eastern, Western and Native Philosophy and Theology as well as from Anthropology, Epistemology, Psychology and Cross-Cultural Studies.

### LS 5100 Liberal Studies Seminar: Another Time: The 20th Century as History

**A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent**

**Instructor:** Amram, Fred M

**Description:** <b>Another Time: The Twentieth Century as History</b>- A conscious imaginative attempt to bring historical perspective to the meaning of the events between the year 1900 and 2000. The first purpose of the seminar will be to identify the most significant ways in which human experience changed in the last century, creating and using criteria to judge their enduring traits.

### LS 5100 Liberal Studies Seminar: Where We Live: Documenting Changing Communities

**A-F only, 2 credit(s), max credits 24, 24 completions allowed; prereq dept consent**

**Instructor:** Stone, David Harold

**Description:** <b>Where We Live: Documenting Changing Communities</b>- Investigate how the culture, commercial and...
architectural environment has changed in the towns of Greater Minnesota and neighborhoods of the Twin Cities. Choose an individual community to explore and research through historic images and maps, demographic data and oral histories. Using the resources of historical societies, libraries and online collections you will establish a picture of life in their community in earlier eras and then document the same locations today. From these images, research, and interviews investigate and try to answer the causes and effects of our rapidly changing cultural and built environment. Explore some of the causes of the changing face of our communities such as the emergence and challenges of "big box retailers," immigration, interstate freeways, departing industries, the farm crisis of the 1980's and the subsequent decline of rural economies.

LS 5100 Liberal Studies Seminar: Leading Innovation in 21st Century MN
A-F only, 3 credit(s), max credits 24, 24 completions allowed; prereq dept consent
Instructor: Harkins, Arthur M
Description: <b>-Leading Innovation in 21st Century Minnesota</b>- This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The "state of Minnesota is subject to multiple definitions and interpretations. Is Minneapolis merely an urban version of Lake Wobegon? Are the Twin Cities a "cold Omaha" or do they surpass it as one of the world's major centers of creativity? What are the strengths, weaknesses, opportunities and threats facing Minnesota's alternative futures as a "state of innovation?" How are these futures influenced by national and global trends and potentials? What are the roles of social, cultural, and psychological "framers" in asking and answering these questions? Explore and discover Minnesota's alternative futures as engines of innovation - or their opposites. Help create new and improved ways of "talking Minnesotan" about Minnesota as a present and future "state of innovation."

LS 5100 Liberal Studies Seminar: Sustainability
A-F only, 2 credit(s), max credits 24, 24 completions allowed; prereq dept consent
Instructor: Smith, Tim
Description: <b>-Sustainability</b>- Sustainability looks at a wide range of environmental issues facing the nation and world today with an eye toward solutions. The term means doable over the long run, over generations, and in practice "sustainability" typically means a kind of business-friendly environmentalism. That makes it easier to adopt new ideas, once the spirit moves a community to attempt change. A business-friendly yet genuine environmentalism makes projects easier to approve and implement. Businesses see a way to stay in business, and when environmentalists are sensitized to cost considerations and the price of change, they too can support easier, longer lasting solutions. Examine energy issues, water, topsoil, forests, fisheries and agricultural issues, biodiversity and dilemmas posed by GMO foods, atmospheric issues like global warming and ozone depletion, and concepts like "Natural Capitalism."

LS 5950 Special Topics: Art, Ethics, and the Old Testament
A-F only, 1 credit(s), max credits 12, 3 completions allowed; prereq dept consent
Instructor: Amram, Fred M
Description: <b>-Art, Ethics, and the Old Testament</b>- A special Minneapolis Institute of Art exhibit called "Old Testament Prints" prompts an examination of Old Testament stories as they are represented in visual art. A parallel exploration permits us to view art "will help you make the most of your visit to the MIA. The paper (due May 15 ) for this workshop will be about one Old Testament story or theme depicted in the exhibit with a focus on the values identified in prose and in visual art. This workshop is not a religion course; instead, it examines values as depicted in story and in visual art.

LS 5950 Special Topics: The Future of the University and the State
A-F only, 1 credit(s), max credits 12, 3 completions allowed; prereq dept consent
Instructor: Seashore, Karen Rose
Description: <b>-The Future of the University and the State</b>- Examines how tertiary education interacts with and impacts the community, the state, the nation, and the world. Explore trends that demonstrate the agendas through which tertiary institutions have negotiated their relationships with their social, economic, and cultural contexts. Using social science and innovation studies concepts and models, the seminar examines how these important relationships might evolve in the future. We will also explore selected "wild card" tertiary education futures - those driven by surprises rather than by discernable trends.

LS 8001 Introduction to Interdisciplinary Inquiry
A-F only, 3 credit(s); prereq MLS student, dept consent
Instructor: Gonzalez, PhD. Anita Marie
Description: Student may contact the instructor or department for information.

LS 8002 Final Project for Graduate Liberal Studies
A-F only, 3 credit(s); prereq MLS; all MLS coursework must be completed by end of sem, dept consent
Instructor: Zita, Jacqelyn N
Description: Student may contact the instructor or department for information.

LS 8100 Advanced Interdisciplinary Inquiry
A-F only, 1-3 credit(s), max credits 5; prereq MLS student, dept consent
Instructor: Gustafson, Donna Mae J
Description: Student may contact the instructor or department for information.

Ling 1701 Language and Society
4 credit(s); Meets CLE req of Cultural Diversity Theme; Instructor: STAFF
Description: When you talk, you give out clues about who you are and where you come from. Sociolinguists have found that patterns of language use are affected by age, gender, socioeconomic status, ethnicity, and other aspects of people and situations. This course reflects on the relationship between language and such social variables. We will also examine multilingual situations such contact between speakers of different languages, and their implications for language loss and language change. Implications of sociolinguistic findings for educators will also be discussed.

Grading: 20% mid exam, 20% final exam, 20% reports/papers, 40% reflection paper.

Ling 1701 Language and Society
4 credit(s); Meets CLE req of Cultural Diversity Theme; Instructor: Olsen, Caroledith
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid information. Sociolinguistics is a field of study concerned with how language is used in a social context. We will study the different ways in which it is true that it?is not just what you say, but how you say it. Each of us is a social creature, and we will see how our roles in society affect our linguistic choices every day. Some roles we choose: we choose to be a student, or an artist, or a friend. Some roles we don?t control: to be male, or a daughter, or a given age are given to us. Either way, these roles affect the way we speak and, in turn, the way others speak to us. The course is intended to introduce you to the ways in which sociolinguists study language and what we know about linguistic behavior across languages and cultures. Understanding the relationship between language and society offers a window into
human behavior that can enhance almost any endeavor, from teaching, to traveling, to falling in love. At the conclusion of this course, you should be able to: --identify the features of language that vary with context, and how they vary; --identify the social dimensions that affect language choices; --understand how social and linguistic variables interact and result in particular ways of speaking; --distinguish how these variables and their consequences are instantiated in a variety of cultures; and --evaluate sociolinguistic data and discussion. Course Outline: Lesson 01: Introduction to Sociolinguistics Lesson 02: Multilingual Communities Lesson 03: Language Maintenance and Shift Lesson 04: Linguistic Varieties and Multilingual Nations Lesson 05: National Languages and Language Planning Lesson 06: Midcourse Exam Lesson 07: Regional and Social Dialects Lesson 08: Research Paper Proposal Lesson 09: Gender, Age, and Ethnicity Lesson 10: Language Change Lesson 11: Style, Context, and Register Lesson 12: Speech Functions and Politeness Lesson 13: Language, Cognition, and Culture Lesson 14: Research Paper Lesson 15: Attitudes and Applications Lesson 16: Final Exam Text: Holmes, Janet. An Introduction to Sociolinguistics. 2nd ed. London: Longman, 2001. In addition to the textbook, four articles will be assigned. They will be accessible via links in the course site.

Style: 100% Web Based.

Grading: 25% mid exam, 25% final exam, 15% reports/papers, 35% written homework.

Exam Format: Two supervised, in-person (not online) exams.

LING 3001 Introduction to Linguistics
4 credit(s); Credit will not be granted if credit has been received for: LING 3001H; Meets CLE req of Social Science Core;

Instructor: STAFF

Description: This course is a general introduction to the various subfields of linguistics, the discipline devoted to the nature of human language, its basis in cognition, and its role in human affairs. The main emphasis in the course will be on the structural components of language: syntax (phrase and sentence structure), morphology (word structure), phonology (sound structure), and semantics/pragmatics (meaning). Students will learn about how human languages can differ from one another and how they are alike; they will also learn basic techniques for describing and analyzing linguistic data through working on examples taken from various languages of the world. An understanding of structural components of language will also serve as the basis for an introduction to subfields of linguistics concerned with how languages change over time (historical linguistics, the nature and cause of regional and social variation and diversity within a given language (sociolinguistics), how languages are learned by children and by adults learning a second language (language acquisition), and the biological basis of language in the brain (neurolinguistics). The course will be conducted through lectures and discussions. Course requirements include regular assignments, a midterm and a final. Target audience is anyone with an interest in the nature of human language.

Style: 80% Lecture, 20% Discussion.

Grading: 30% mid exam, 35% final exam, 35% problem solving.

Exam Format: Short answer

LING 3052V Honors: Thesis
A-F only, 3 credit(s); prereq 3051 credit will not be granted if credit has already been received for LING 3052H; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: A continuation of Ling 3051H, with emphasis on writing final version of thesis. Audience: CLA Honors Linguistics majors.

Style: independent research, writing

Grading: 100% reports/papers.

LING 3601 Historical Linguistics
3 credit(s); prereq 3001 or instr consent; Credit will not be granted if credit has been received for: LING 5601;

Instructor: STAFF

Description: Languages change. How they do, why they do, and what we can learn form studying these changes are the central topics of this course. There will be weekly reading and assignments from the text, R.L. Trask's Historical Linguistics. By the end of the course you will not only know major tendencies of phonological, semantic, lexical, morphological, and syntactic change and some explanations for them, you will also understand some of the specifics of the history of English back to Proto-Indo-European.

Style: 50% Lecture, 30% Discussion. small group work and student presentations

Grading: 20% mid exam, 40% final exam, 15% quizzes, 5% in-class presentation, 5% class participation, 15% problem solving.

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 4201 Syntax I
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent;

Instructor: Schueler, David

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

LING 4901W Major Project Seminar
S-N only, 3 credit(s); prereq Ling major, [jr or sr]; Meets CLE req of Writing Intensive;

Instructor: STAFF

Description: This class will provide support for the completion of the senior project /Honors Thesis in Linguistics, by analyzing the structure and organization of linguistics papers and providing a forum for discussion of developmental and stylistic aspects of the writing process. Students must come to the first class with a previously written course paper that they would like to expand and revise. In case the project does not involve the expansion of a previously written course paper, students are expected to have them a 6-8 page proposal, outlining the issue(s), previous studies, and the project plan. Target audience: Junior and Senior Linguistics majors.

Style: 50% Discussion. 30% Small Group Activities, 20% Student Presentation. Independent research and writing.

Grading: 50% reports/papers. 50% class activities

Exam Format: None

LING 5001 Introduction to Linguistics
4 credit(s); prereq grad or instr consent; Credit will not be granted if credit has been received for: LING 3001;

Instructor: Schueler, David

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

LING 5201 Syntactic Theory I
3 credit(s); prereq 3001 or 3001H or 5001 or instr consent;

Instructor: Schueler, David

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

LING 5205 Semantics
3 credit(s); prereq 5201 or instr consent;

Instructor: Reese, Brian Jon

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 listnership, 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, eye, head, ear, 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, deltic, 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, Tokano, 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 5900 Topics in Linguistics  
3 credit(s), max credits 12, 3 completions allowed;  
**Instructor:** Reese, Brian Jon  
**Description:** Student may contact the instructor or department for information.  

LING 5900 Topics in Linguistics  
3 credit(s), max credits 12, 3 completions allowed;  
**Instructor:** Szatrowski, Polly Ellen  
**Description:** How do we tell stories to give shape and meaning to our lives, and negotiate our changing identities and selves in the world? In this course we will investigate the structure and diversity of linguistic forms used in storytelling, and how this expression of embodied experiences shapes and is shaped by language. Using actual stories told in language’s natural habitat in conversational interaction, we will investigate how people use linguistic/non-linguistic devices to establish tellership, allocate specific structural roles in the participation framework (storyteller, co-teller, recipient), create story structure, and evaluate events. We will consider how cognitive units of memory, and levels of consciousness are reflected in event structure, information structure (topicalization, focus, contrast, reference, ellipsis), and the establishment of time (past/historical present tense alternation). Finally, we will examine how participants negotiate the tellability of their stories using evaluative devices, quotation and constructed dialogue, repetition, etc., in order to make points, justify opinions, and create alignments that connect the teller’s identity with larger social identities. The data will come from narratives/stories from natural conversation, university lectures, interviews, etc. in a variety of languages, including English, Japanese, German and Greek. READINGS: Chapters from the following texts, and other research papers. Bamberg, Michael, Anna De Fina, & Deborah Schiffrin, eds. 2007. Selves and identities in narrative and discourse. Amsterdam: John Benjamins. Chafe, Wallace, ed. 1990. The peer stories: Cognitive, cultural, and linguistic aspects of narrative production. Ablex Publishing Corporation. Georgakopoulou, Alexandra. 2007. Small stories, interaction and identities. Amsterdam: John Benjamins. Labov, William. 1973. Language in the inner city: Philadelphia: University of Pennsylvania Press. Norrick, Nesli R. 2000. Conversational narrative: Storytelling in everyday talk. Amsterdam: John Benjamins. Quaisthoff, Uta M. & Tabea Becker, eds. 2005. Narrative interaction. Amsterdam: John Benjamins. Thorsomborrow, Joanna & Jennifer Coates, eds. 2005. The sociolinguistics of narrative. Amsterdam: John Benjamins. Prerequisite: LING 3001 or 3011 or 5001, OR permission of the instructor. Questions, further information? Please contact Polly Szatrowski at szatr001@umn.edu.  
**Style:** 40% Lecture, 30% Discussion, 30% Student Presentation.  
**Grading:** 40% reports/papers, 30% written homework, 30% in-class presentation.  

LING 5900 Topics in Linguistics  
3 credit(s), max credits 12, 3 completions allowed;  
**Instructor:** Marcotte, Jean-Philippe  
**Description:** Student may contact the instructor or department for information.  

LING 5993 Directed Study  
1-3 credit(s), max credits 10, 10 completions 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 completions allowed; prereq instr consent , dept consent , college consent ;  
**Instructor:** Soh, Hooi Ling  
**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 completions 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 8106 Field Methods in Linguistics II  
4 credit(s), max credits 8; prereq [5001, 5201, 5302, grad linguistics major] or instr consent ;  
**Instructor:** Stenson, Nancy J  
**Description:** Student may contact the instructor or department for information.  

LING 8900 Seminar: Topics in Linguistics  
3 credit(s), max credits 9, 3 completions allowed; prereq instr consent ;  
**Instructor:** Reese, Brian Jon  
**Description:** Student may contact the instructor or department for information.  

LING 8900 Seminar: Topics in Linguistics  
3 credit(s), max credits 9, 3 completions allowed; prereq instr consent ;  
**Instructor:** Marcotte, Jean-Philippe  
**Description:** Student may contact the instructor or department for information.  

LING 8991 Independent Study  
1-4 credit(s), max credits 15, 15 completions allowed; prereq instr consent ;  
**Instructor:** Gundel, Jeanette K  
**Description:** Student may contact the instructor or department for information.  

LING 8991 Independent Study
MGMT 1001 Contemporary Management
A-F only, 3 credit(s); prereq Carlson School fr or soph;
Instructor: Miller, Philip Jordan
Description: Student may contact the instructor or department for information.

MGMT 1001 Contemporary Management
A-F only, 3 credit(s); prereq Carlson School fr or soph;
Instructor: Li, Min
Description: Student may contact the instructor or department for information.

MGMT 1001H Honors: Contemporary Management
A-F only, 3 credit(s); prereq [Fr or soph] honors;
Instructor: Rueker, Robert W
Description: Student may contact the instructor or department for information.

MGMT 3001 Fundamentals of Management
A-F only, 3 credit(s);
Instructor: Fine, Alan Raymond
Description: Student may contact the instructor or department for information.

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: Kaiser, David
Description: This is a fully online course offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid information. This course is designed for students who intend to work in a business environment. You will begin by learning the basic concepts and terminology of management. As you progress through the course materials, you will begin to understand the concepts of a manager's job as he or she analyzes and chooses options to benefit the organization. By the time you complete this course, you will begin to understand how the components of a manager's job come together in effective leadership and communication to manage people. Style: 100% Web Based. Grading: 20% mid exam, 20% final exam, 30% reports/papers, 10% quizzes. 14 activity reports - 20% Exam Format: Closed-book, in-person midterm and final exams (not online).

MGMT 3004 Business Strategy
A-F only, 3 credit(s); prereq CSOM soph or jr; Credit will not be granted if credit has been received for: MGMT 4004W;
Instructor: Cohen, Anne Noelle
Description: Student may contact the instructor or department for information.

MGMT 3004 Business Strategy
A-F only, 3 credit(s); prereq CSOM soph or jr; Credit will not be granted if credit has been received for: MGMT 4004W;
Instructor: Forbes, Daniel P
Description: Student may contact the instructor or department for information.

MGMT 3010 Introduction to Entrepreneurship
A-F only, 4 credit(s);
Instructor: STAFF
Description: This course provides an overview to students regarding the role of entrepreneurship in our economy and to the process of new venture creation. The course is intended to broadly introduce the set of skills known to have an impact on entrepreneurial success. The students are introduced to various forms of entrepreneurial pursuits including independent start-ups, venturing within established organizations, franchising, and acquiring existing businesses. The course is delivered through formal lecture, guest speakers, group work and a variety of experiential exercises. Key learning objectives: (1) Provide exposure to the role of entrepreneurs in society and potential career paths, (2) Develop individual self-assessment of entrepreneurial interests and capabilities, (3) Examine the new venture creation process and key challenges of launching and growing new businesses, (4) Understand what skills are needed to become an entrepreneur, and (5) Begin to develop the foundational skills required to successfully embark on an entrepreneurial career, such as problem-solving under uncertainty, decision-making with incomplete information, opportunity identification, communication, innovation processes, sales, negotiations, recruitment and staffing, and leadership. Style: 25% Lecture, 20% Discussion, 20% Small Group Activities, 20% Student Presentation, 15% Guest Speakers. Grading: 25% reports/papers, 60% special projects, 15% class participation.

MGMT 3033V Honors: Business Communication
A-F only, 3 credit(s); prereq [Fr or sr] honors credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;
Instructor: Littlefield, Holly A
Description: This section of Mgmt 3033 Business Communication will focus on important business communications concepts like audience analysis, persuasion, correspondance, discussion, presentations, and visual aids. The course will begin by covering these basics. Then you will apply these basics while working in small teams to complete a project for a local non-profit, small community business, or service organization. You will have some choice as to what project you would like to select. You will meet a few times with representatives from that organization, but this is not traditional volunteering. Instead you will be completing a project for the organization the way that an outside consulting team might. Some examples of projects might include creating a marketing plan for the organization, designing a website, surveying clientele to provide customer service recommendations, creating
MGMT 3033W Business Communication  
A-F only, 3 credit(s); prerequisite: composition, CSOM upper-div, at least 60 cr credit will not be granted if credit already received for: BA 3033V or 3033V; Meets CLE req of Writing Intensive;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

MGMT 3033W Business Communication  
A-F only, 3 credit(s); prerequisite: composition, CSOM upper-div, at least 60 cr credit will not be granted if credit already received for: BA 3033W or 3033V; Meets CLE req of Writing Intensive;  
Instructor: Littlefield, Holly A  
Description: MGMT 3033—Business Communications fosters students' communication and analytical skills. It helps students become credible professionals who can effectively contribute to organizations and communities and successfully employ a variety of communications strategies and skills. The course combines writing and speaking into a single, semester-long course required of all Carlson School undergraduates. It gives students opportunities to develop critical thinking and applied communications skills using a variety of real world speaking and writing assignments. Students give multiple presentations both individually and in teams; they take part in a case study competition; and they also create a variety of business documents including emails, memos, reports, letters, and PowerPoint decks. This course should help students to: --Communicate credibly and deliver written and spoken messages that are adapted to the specific needs of the audience and situation; --Understand differences in message design; --Employ the persuasive strategies most effective in writing and speaking situations; --Understand the persuasive effect of presenting quantitative information and appealing to audience logic or emotion; --Demonstrate effective nonverbal communication skills; --Critically judge information and information sources; --Build sound arguments, using data and logic, when delivering a persuasive message; --Use technology to increase the effectiveness of communication. There is one, outside of class, required lab session for this course.

Style: 20% Lecture, 80% Discussion.
Grading: 10% mid exam, 40% reports/papers, 40% in-class presentation, 10% class participation.

MGMT 3040 Understanding the International Environment of Firms: International Business  
A-F only, 3 credit(s); prerequisite: 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); prerequisite: 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); prerequisite: 3001, CSOM upper div, at least 60 cr; Meets CLE req of International Perspect Theme;  
Instructor: Adams, Georjean L  
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); prerequisite: 3040, at least 90 cr, honors student, 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 4004V Honors: Business Policy: Strategy Formulation and Implementation  
A-F only, 3 credit(s); prerequisite: 3040, at least 90 cr, completion of business core courses; Credit will not be granted if credit has been received for: ESPM 3602;  
Instructor: Cohen, Anne Noelle  
Description: Student may contact the instructor or department for information.

MGMT 4004W Business Policy: Strategy Formulation and Implementation  
A-F only, 3 credit(s); prerequisite: 3040, 90 cr, completion of business policy courses;  
Instructor: Singh, Gurneeta Vasudeva  
Description: Student may contact the instructor or department for information.
MGMT 4050: Management of Innovation and Change
A-F only, 2 credit(s); prereq [3001 or 3010], CSOM upper div credit will not be granted if credit has been received for: MGMT 3004; Meets CLE req of Writing Intensive;
Instructor: Spruth, Steve
Description: This course focuses on the process of creating innovative new businesses or entrepreneurial ventures. Special attention is paid to understanding the sequence of events that typically unfold among individuals, groups, organizations, and industries as innovations develop from concept through implementation, and what paths along this journey are likely to lead to success and failure. The course is based on concepts and findings from the Minnesota Innovation Research Program and other research studies. Special emphasis is given to understanding the development of organizational learning, leadership, external relationships, infrastructure and implementation during the innovation journey. This course also provides training in diagnostic methods for analyzing cases or problems, arguing proposals, evaluating conceptual models, and implementing solutions. Students get opportunities to apply course topics and methods students can increase their odds of successfully maneuvering organizational innovation and change journeys.
Style: 20% Lecture, 30% Discussion, 10% Small Group Activities, 20% Student Presentation, 10% Guest Speakers, 10% Web Based.
Grading: 50% special projects, 25% in-class presentation, 25% class participation.

MGMT 4060: Entrepreneurial Perspectives
A-F only, 2 credit(s); prereq 3010;
Instructor: Wirthe, Jeffrey John
Description: Student may contact the instructor or department for information.

MGMT 4170: New Business Feasibility and Planning
A-F only, 4 credit(s); prereq 4008;
Instructor: Beil, Frank J
Description: Student may contact the instructor or department for information.

MGMT 4172: Entrepreneurship in Action II
A-F only, 4 credit(s); prereq 4171;
Instructor: Abrams, Lori J
Description: Student may contact the instructor or department for information.

MGMT 5019: Business, Natural Environment, and Global Economy
A-F only, 2 credit(s); prereq MBA student;
Instructor: Marcus, Alfred A
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 6031 Industry Analysis and Competitive Strategy
A-F only, 4 credit(s); prereq MBA 6300, MBA student;
Instructor: Fox, Isaac J
Description: Student may contact the instructor or department for information.

MGMT 6032 Strategic Alliances
A-F only, 2 credit(s); prereq MBA student;
Instructor: Madzar, Svetlana
Description: Student may contact the instructor or department for information.

MGMT 6033 Managing the Strategy Process
A-F only, 2 credit(s); prereq MBA student;
Instructor: Sapienza, Harry Jack
Description: Student may contact the instructor or department for information.

MGMT 6034 Strategic Leadership
A-F only, 2 credit(s); prereq 6033, MBA student;
Instructor: Stake, James Brian
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu.
MGMT 6035 Complex and Cross-Cultural Negotiations
A-F only, 2 credit(s); prereq [6004, MBA student] or instr consent;
Instructor: Hydrie, Yelena
Description: Student may contact the instructor or department for information.

MGMT 6040 International Strategy and Organization
A-F only, 2 credit(s); prereq MBA student;
Instructor: Madzar, Svjetlana
Description: Student may contact the instructor or department for information.

MGMT 6050 Management of Innovation and Change
A-F only, 2 credit(s); prereq MBA student;
Instructor: Spruth, Steve
Description: Student may contact the instructor or department for information.

MGMT 6084 Management of Groups
A-F only, 2 credit(s); prereq MBA student;
Instructor: Madzar, Svjetlana
Description: Student may contact the instructor or department for information.

MGMT 6110 Managing People and Organizations
A-F only, 2 credit(s); prereq MBA student;
Instructor: Leroy, Sophie
Description: Student may contact the instructor or department for information.

MGMT 6305 The International Environment of Business
A-F only, 2 credit(s); prereq MBA student;
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 Concurrent registration is required (or allowed) in PA 5190, Concurrent registration is required (or allowed) in PA 5191, [CSOM or Humphrey or master's student];
Instructor: Vaaler, Paul Martin
Description: This unique seminar is devoted to exploring, investigating, discussing, understanding, and, in the process, developing basic concepts, practices, people and organizations associated with ?integrative leadership,? By these two words we mean something simple: multi-sector partnerships to address strategic challenges for mutual benefit. But simple is not necessarily easy. The course focuses on complex challenges that cross government, business, and nonprofit sectors and require leaders who can bring together people and organizations from both sectors to address local, national, even global challenges that can transform affected businesses, governments and civil society organizations for better or worse.

MGMT 6402 Integrative Leadership: From Theory to Practice
A-F only, 2 credit(s); prereq Concurrent registration is required (or allowed) in PA 5190, Concurrent registration is required (or allowed) in PA 5191, [CSOM or Humphrey or master's student];
Instructor: Kiedrowski, P. Jay
Description: This unique seminar is devoted to exploring, investigating, discussing, understanding, and, in the process, developing basic concepts, practices, people and organizations associated with ?integrative leadership,? By these two words we mean something simple: multi-sector partnerships to address strategic challenges for mutual benefit. But simple is not necessarily easy. The course focuses on complex challenges that cross government, business, and nonprofit sectors and require leaders who can bring together people and organizations from both sectors to address local, national, even global challenges that can transform affected businesses, governments and civil society organizations for better or worse.

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: Course Overview This course focuses on problem formulation, conceptual modeling, theory building, and research design. It is geared for the doctoral student in the social and behavioral sciences--especially those wanting to become proficient in conducting research on managerial and organizational problems. MGMT 8101 is a core methods course for Ph.D. students in the Strategic Management and Organizations doctoral program, and by courtesy for Ph.D. students in other social science disciplines. Course Goals The outcome-based education objective of this course is that you develop a good research proposal, as would be necessary to undertake a research project or a dissertation. Four key activities are emphasized in conducting a study: problem formulation, theory building, research design, and problem solving. Each class session examines one of these four activities, and begins with an introduction to the substantive and methodological issues involved in performing each research activity. This introduction is supplemented with a few key readings. Working knowledge of the subject matter is gained by developing a research proposal on a problem or issue of the student's choosing. The instructor and peer students review and provide feedback on ways to improve research proposals. You will be asked to revise your proposal several times until it is judged to be of sound conceptual quality and operational clarity. After the outcome-based learning objective is achieved in this course, it is expected you will actually implement your research proposal either as a research project or as an initial draft of your dissertation. Prerequisites Upon entering the course we expect you to have a research question, problem, or topic in mind that you will use to develop a research proposal during the course. As one student stated, "I would have made far more progress in this course and felt much better had I come in with a fairly well defined problem to examine." You need a research problem/question in order to get on with the tasks of learning and practicing skills of theory building and research design in one semester. This research problem does NOT have to be your dissertation. In fact it is better to select a less important and less-challenging problem on which you can practice your research skills. During the first class, you will be asked to introduce yourself to others by describing the research question, problem, or topic you intend to pursue during the course. We also assume that you have taken a graduate-level course in statistics, since there is no intent to cover the analysis of variance or regression techniques that are related to theory building and research design.

MOT 4001 Leadership, Professionalism and Business Basics for Engineers
A-F only, 2 credit(s);
Instructor: Foggatt, Kirk
Description: MOT 4001 is designed to provide scientists and engineers with a working knowledge of the broader business context within which technical ideas are translated into solutions that address customer needs and deliver commercial value to a firm. The course will broaden students' business knowledge and personal leadership abilities, enabling technical professionals to increase their business impact and career success. This two-credit course will build practical knowledge and skill in personal leadership and professionalism, effective communication, business fundamentals and the process of

Management of Technology
510 WBOB

MOT 4001 Leadership, Professionalism and Business Basics for Engineers
A-F only, 2 credit(s);
Instructor: Foggatt, Kirk
Description: MOT 4001 is designed to provide scientists and engineers with a working knowledge of the broader business context within which technical ideas are translated into solutions that address customer needs and deliver commercial value to a firm. The course will broaden students' business knowledge and personal leadership abilities, enabling technical professionals to increase their business impact and career success. This two-credit course will build practical knowledge and skill in personal leadership and professionalism, effective communication, business fundamentals, and the process of
innovation (i.e., transforming technical ideas into value creating solutions). The course content and the experiential learning approach are designed to reflect the real world requirements and challenges technical professionals need to master in order to thrive in collaborative, project team environments. The course instructor has spent 24 years working for Silicon Valley-based technology companies including HP, Silicon Graphics, Yahoo!, and Agilent Technologies. He brings relevant experience, academic rigor, and a passion for applied learning and development to the classroom.

**Style:** 40% Lecture, 30% Discussion, 30% Small Group Activities.

**Grading:** 20% mid exam, 30% final exam, 35% reports/papers, 15% in-class presentation.

**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 completion allowed; prereq MOT grad student;

Instructor: Fletcher, Wayne A

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

**MOT 8950 International Management of Technology Project**

A-F only, 1.5 credit(s); prereq MOT grad student;

Instructor: Polia, Dennis L

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

**Managerial Communications**

4-300 Carlson School of Management

**MCOM 5500 Strategic Managerial Communication**

(Comprehensive Course)

A-F only, 4 credit(s), max credits 8; prereq MBA student;

Instructor: Syverson, MA; JoAnn

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

**MCOM 5530 Strategies and Skills for Managerial Presentations**

A-F only, 2 credit(s); prereq MBA student;

Instructor: Smith, Sandra S

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

**Manufacturing Technology**

20 Classroom Office Building

**MT 3001 Manufacturing in a Global Economy**

A-F only, 3 credit(s);

Instructor: King, William Tyler

Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policy, fee, and financial aid information. In today’s changing global economy, high-performing manufacturing operations must function at the intersection of three important dimensions: Leadership, Product Quality, and Innovation. This course breaks down each dimension in detail and explains how all three are interrelated and necessary to achieve sustainable profitability.

**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 structures as part of the lab. The final lab will involve an evaluation of the operation of these structures (11 four-hour labs)

MT 3121 Thin Films Deposition
A-F only, 3 credit(s); prereq Physics, chemistry, [college algebra or precalculus], 45 cr;
Instructor: Halter, Robert S
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: Tran, Nang
Description: Introduction to four basic types of characterization
methods: electron beam microscopy, optical microscopy and
FTIR, proximal probe techniques, and x-ray/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 Biomaterials
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 nuclear biochemistry.
Biomolecule design, production using recombinant DNA
technology & use in nanodevices and nano-materials.
Applications of biological molecules in biomaterials:
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 nanostructures. Topics include optical
detection methods, 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: This is a fully online section offered through Online
and Distance Learning (ODL), College of Continuing Education.
Visit "Class URL" for ODL policy, fee, and financial aid
information. This course is designed for the manufacturing
process engineer. It is divided into four units: Introduction;
Fundamental Technologies, in which you will learn about the
fabrication of engineering materials and about their physical
properties; Process Design, in which you will practice how to
design, analyze, and control a multi-step manufacturing process;
and Manufacturing Systems Implementation, in which you will
learn about process troubleshooting and control techniques as
well as continuous improvement, scale-up, and transfer. This
course will teach you how to dissect manufacturing process
into its component steps down to the raw fabrication steps of the
included materials and components. It will teach you to study
and control each step and to combine the steps into a coherent
and compatible production line.
Style: 100% Web Based.
Grading: 15% quizzes, self-introduction: 1% - 4 group exercises
and discussions: 11% - 6 group projects (32%) - 9 online
discussions: 13% - self-introduction: 1% - 6 individual exercises
(12%) - final paper (20%) - 13 problem sets (40%) - 3 unit
project-related assignments: 49%

MT 4011 Design of Manufacturing Systems and Simulation
A-F only, 3 credit(s); prereq 3001 or manufacturing
experience;
Instructor: Boone, Michael Dennis
Description: This is a fully online section offered through Online
and Distance Learning (ODL), College of Continuing Education.
Visit "Class URL" for ODL policy, fee, and financial aid
information. 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.
Style: 100% Web Based.
Grading: - 10% quizzes - self-introduction and test submission
(2%) - 9 online discussions (18%) - 10 problem sets (40%) - 3 unit
projects (30%)

MT 4012 Manufacturing Processes and Technology
A-F only, 3 credit(s); prereq 3001 or manufacturing
experience;
Instructor: Edmonson, Dave
Description: This is a fully online section offered through Online
and Distance Learning (ODL), College of Continuing Education.
Visit "Class URL" for ODL policy, fee, and financial aid
information. This course is designed for the manufacturing
process engineer. It is divided into four units: Introduction;
Fundamental Technologies, in which you will learn about the
fabrication of engineering materials and about their physical
properties; Process Design, in which you will practice how to
design, analyze, and control a multi-step manufacturing process;
and Manufacturing Systems Implementation, in which you will
learn about process troubleshooting and control techniques as
well as continuous improvement, scale-up, and transfer. This
course will teach you how to dissect a manufacturing process
into its component steps down to the raw fabrication steps of the
included materials and components. It will teach you to study
and control each step and to combine the steps into a coherent
and compatible production line.
Style: 100% Web Based.
Grading: 15% quizzes - self-introduction: 1% - 4 group exercises
discussions: 11% - 6 individual exercises: 24% - 9
project-related assignments: 49%
This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010.

Compliance. Coursework includes a project involving the creation of a “mock medical device” and using that as the basis for applying the various course modules to a real-world case study for analysis and discussion.

MT 4501 Global Manufacturing Enterprise
A-F only, 3 credit(s); prerequisite MT major or minor or certificate or instructor consent;
Instructor: King, William Tyler
Description: Capstone project. Develop a part or product from the requirements 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
3-150 CarlSmgmt

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prerequisite 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); prerequisite 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, offered 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/undergraduatestudyabroad

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prerequisite ECON 1101;
Instructor: MacKenzie, Lydia May
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit “Class URL” for ODL policies, including fee and financial aid information. Marketing is such a part of our daily lives that we tend to take it for granted. After taking this course, though, you will never look at marketing—whether in the form of advertising, retailing, or personal selling—in quite the same way. In the coming weeks you will be introduced to terms, concepts, and skills needed for analyzing marketing problems. The course will help you explore those factors outside an organization that affect its product, pricing, promotion, and distribution decisions. We will analyze, describe, and discuss cases from actual organizations. At the conclusion of this course, you should be able to: --apply key marketing terms and concepts; --understand and apply the marketing process; --describe how marketing affects our lives; --develop basic analytical skills used in making marketing-related decisions; --discuss marketing strategy alternatives; and --integrate all marketing elements into a written proposal for a marketing plan. Distance Learning There are many advantages to being a distance learning student in an extended-term course. You can “go to class” (i.e., read the online study notes and your course textbook) according to a schedule you set for yourself and turn in assignments at your own pace. Remember, though, that written assignments provide an opportunity for dialogue between student and instructor—so try to turn in your written assignments regularly and wait for feedback from me before you submit the next one. This will assist you in improving your work and will permit me to give your work the time and consideration it deserves while still meeting your timeline for completing the course.

MKTG 3001 Principles of Marketing
A-F only, 3 credit(s); prerequisite ECON 1101;
Instructor: Lipe, Jay
Description: Student may contact the instructor or department for information.

MKTG 3040 Buyer Behavior
A-F only, 4 credit(s); prerequisite 3001. [3010 or Concurrent registration is required (or allowed) in 3010] credit will not be granted if credit already received for: Mktg 4040;
Instructor: Meyers-Levy, Joan
Description: Student may contact the instructor or department for information.

MKTG 4030 Sales Management
A-F only, 4 credit(s); prerequisite 3001, 3010, 3040;
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

MKTG 4050 Integrated Marketing Communications
A-F only, 4 credit(s); prerequisite 3001, 3010, 3040;
Instructor: Giskevicius, Vladas
Description: Student may contact the instructor or department for information.

MKTG 4080W Marketing Strategy
A-F only, 4 credit(s); prerequisite 3001, 3010, 3040, 12 cr in marketing, sr; Meets CLE req of Writing Intensive;
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

Style: 100% Web Based.
Grading: 20% mid exam, 20% final exam, 35% written homework. Marketing plan--23% Course completion calendar--2%
### Master of Business Administration

**2-210 CarlSMgmt**

#### MBA 6030 Financial Accounting
- **A-F only, 3 credit(s); prereq** Evening MBA Student; Instructor: Webber,Nancy Bernadette
- **Description:** This course is an introduction to the external accounting systems used by U.S. organizations to measure and report their economic performance and financial position to external users such as stockholders, debt holders and potential investors. We will develop the basic accounting model and examine it for its strengths and weaknesses. By the end of the term, you should be able to read and interpret financial statements.
- **Style:** 100% Lecture. The pace of the class is rigorous. Students will excel if they stay current and supplement in-class lectures by doing outside reading and assigned problems before lecture on regular basis.
- **Grading:** 50% final exam, 50% quizzes.
- **Exam Format:** Free hand computation.

#### MBA 6035 Managerial Accounting
- **A-F only, 3 credit(s); prereq** MBA student; Instructor: Duke,Gordon Leon
- **Description:** This course introduces the topic of financial accounting for U.S. organizations. The purpose of financial accounting is to provide information to owners of the firm and other interested parties to serve as the basis for making decisions about that firm. The student who successfully completes this class will be able to read, analyze and understand U.S. financial statements.
- **Style:** 80% Lecture, 20% Discussion.
- **Grading:** see website
- **Exam Format:** see website

#### MBA 6120 Data Analysis and Statistics for Managers
- **A-F only, 3 credit(s); prereq** Evening 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: Hagemann,Michael
- **Description:** Student may contact the instructor or department for information.

#### MBA 6220 Operations Management
- **A-F only, 3 credit(s); prereq** MBA student; Instructor: Rungtusanatham PhD,M. Johnny
- **Description:** Student may contact the instructor or department for information.
MBA 6230 Financial Management
A-F only, 3 credit(s); prereq 6030, MBA student;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MBA 6235 Managerial Accounting
A-F only, 2 credit(s), max credits 3, 1 completion allowed; prereq MBA student;
Instructor: Caliendo, Charles Michael
Description: Student may contact the instructor or department for information.

MBA 6240 Information Technology Management
A-F only, 2 credit(s); prereq MBA student;
Instructor: Bapna, Ravi
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: Maitland, Ian
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: Marcus, Alfred A
Description: Student may contact the instructor or department for information.

MBA 6501 Carlson Funds Enterprise: Growth
2-4 credit(s), max credits 12, 3 completions allowed; prereq MBA student or [applied to or accepted in] spring of 1st yr; [6031, ACCT 6100, ACCT 6160, MBA student, emphasis in finance mgmt] recommended;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MBA 6502 Carlson Funds Enterprise: Fixed Income
2-4 credit(s), max credits 12, 3 completions allowed; prereq [Applied to or accepted in] spring-A of 1st yr to begin in spring-B; [6031, ACCT 6100, ACCT 6160, MBA student, emphasis in finance mgmt] recommended;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MBA 6503 Carlson Ventures Enterprise
OPT No Aud, 2-4 credit(s), max credits 12, 3 completions allowed; prereq MBA student, approved application, interview;
Instructor: Nord, Tobin Lawrence
Description: Student may contact the instructor or department for information.

MBT 5150 Current Financial Accounting Issues
A-F only, 2 credit(s); prereq ACCT 5135, MBT student;
Instructor: Sellner, Mark A
Description: Student may contact the instructor or department for information.

MBT 5220 Tax Research, Communication, and Practice
A-F only, 4 credit(s); prereq ACCT 5135, MBT student;
Instructor: Guterman, Paul Gerard
Description: This is an ambitious, demanding fundamental masters-level course on tax research and IRS practice and procedure. Objectives include: (i) obtaining an overview and understanding of tax research resources, (ii) learning how to use such resources to conduct effective tax research; (iii) learning how to analyze what you find by knowing what different authorities mean in themselves and in relation to each other; (iv) learning the technical materials of Subtitle F of the Code (such as penalties, statute of limitations, interest, etc.); (v) learning how to interpret and resolve conflicting authority; (vi) learning how the IRS audits and the IRS Appeals process including the most effective ways to deal with the IRS; and (vii) learn how to communicate your tax research results. In conjunction with the last objective we do nine different research exercises, including research memos and a protest letter. We also do two editing exercises, including an edit of a fellow student's memo.
Style: 80% Lecture, 5% Discussion, 15% Small Group Activities.
Grading: 52% reports/papers, 30% special projects, 18% quizzes.
Exam Format: There are 3 in-class multiple-choice quizzes that cover the material on IRS Practice and Procedure.

MBT 5230 Corporate Taxation I
A-F only, 2 credit(s); prereq ACCT 5135, MBT student;
Instructor: Sellner, Mark A
Description: Student may contact the instructor or department for information.

MBT 5333 Tax Aspects of Consolidated Returns
A-F only, 2 credit(s); prereq 5230, MBT student;
Instructor: Mc Cormick, James Phillip
Description: Student may contact the instructor or department for information.

MBT 5350 Wealth Transfer I (Estates and Gifts)
A-F only, 2 credit(s); prereq ACCT 5135, MBT student;
Instructor: Skonnord, Eric Jenal
Description: Student may contact the instructor or department for information.

MBT 5353 Trusts and Estates
A-F only, 2 credit(s); prereq ACCT 5135, MBT student;
Instructor: Bedosky, John Richard
Description: Student may contact the instructor or department for information.

MBT 5360 State and Local Taxation
A-F only, 2 credit(s); prereq Acct 5230, MBT student;
Instructor: Busacker, Dale Herman
Description: Student may contact the instructor or department for information.

MBT 5363 Compensation and Benefits
A-F only, 2 credit(s); prereq ACCT 5135, MBT student;
Instructor: Clark, Keith H
Description: Student may contact the instructor or department for information.

MBT 5420 Current Topics in Taxation
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed; prereq ACCT 5135, MBT student;
Instructor: Sellner, Mark A
Description: Student may contact the instructor or department for information.

MBT 5500 Business, Government, and Economic Tax Policy
MATS 2001 Introduction to the Science of Engineering Materials
A-F only, 3 credit(s); prereq CHEM 1021, MATH 1272, PHYS 1301W, IT student;
Instructor: Gerberich, William W
Description: Introduction to structure-property relationships of engineering materials. Atomic structure and bonding; crystal structures; imperfections in solids; strength of materials and strengthening mechanisms; phase transformations; heat treatment and control of microstructures; materials selection and design. Integrates properties of metals, ceramics, polymers, and composites. Laboratory experiments deal with material strength, creep, and fatigue of engineering alloys, and heat treatment of steel and aluminum.
Style: 60% Lecture, 10% Discussion, 20% Laboratory. problem solving
Grading: 30% mid exam, 25% final exam, 10% quizzes, 25% laboratory evaluation, 10% problem solving.
Exam Format: Problems and fill-in-the-blanks
MATS 2002 Introduction to the Science of Engineering Materials Laboratory
A-F only, 1 credit(s); prereq [2001 or Concurrent registration is required (or allowed) in 2001], IT student;
Instructor: Schott, Jeffrey H.
Description: Student may contact the instructor or department for information.
MATS 3011 Introduction to Materials Science and Engineering 3 credit(s); prereq CHEM 1021, [MATH 1272 or MATH 1372], PHYS 1302, IT student;
Instructor: Holmes, Russell James
Description: Student may contact the instructor or department for information.
MATS 3041 Industrial Assignment I
A-F only, 2 credit(s); prereq MatS upper div, completion of required courses in MatS program through fall sem of 3rd yr. GPA of at least 2.80, regis in co-op program; Credit will not be granted if credit has been received for: CHEN 3041;
Instructor: STAFF
Description: Mats 3041. Industrial Assignment I. (2 cr., regis in MatS co-op program, completion of required courses in MatS program through Fall semester/3rd yr) First industrial work assignment in engineering co-op program. Evaluation based on formal written report describing the semester's work assignment.
Style: On-the-job training
Grading: 100% reports/papers.
MATS 3051W/Materials Properties Lab
A-F only, 3 credit(s); prereq [3011, MatS upper div] or dept consent; Meets CLE req of Writing Intensive;
Instructor: Schott, Jeffrey H.
Description: Student may contact the instructor or department for information.
MATS 4002 Mass Transport and Kinetics
A-F only, 4 credit(s); prereq 4001, CE 3101, upper div MatS;
Instructor: Shores, David A
Description: This course is intended for 3rd year Materials Science undergraduates and science graduate students. The course content is focused on the mechanisms of mass transport in solids, esp. solid state diffusion in metals, sense conductors and ceramics, and on kinetic of processes occurring in solids, esp. rates of transportations in ceramics and metals, and rates of gas-solid chemical reactions. Source materials are chapters in several books and paper from scientific journals.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 45% quizzes, 25% problem solving.
Exam Format: Problem solving.
MATS 4041 Industrial Assignment II
A-F only, 2 credit(s); prereq 3041, completion of required courses in MatS program through fall sem of 4th yr, GPA of at least 2.80, registration in co-op program; Credit will not be granted if credit has been received for: CHEN 4041;
Instructor: STAFF
Description: Mats 4041. Industrial Assignment II (2 cr., regis in MatS co-op program, completion of required courses in MatS program through Fall semester/yr 4) Second industrial work assignment in MatS co-op program. Application of Materials Science principles to the solution of engineering design problems in an industrial work environment. Evaluation based on formal written report emphasizing design issues derived from work assignment.
Style: On-the-job training
Grading: 100% reports/papers.
MATS 4214 Polymers
A-F only, 3 credit(s); prereq [3011, [4001 or CHEN 4101], [upper div MatS or ChEn]] or instr consent ;
Instructor: Bates, Frank S
Description: Polymer synthesis, characterization, structure property relations, Polymerization types: free 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.
MATS 4223W Polymer Laboratory
2 credit(s); prereq 4214 or Concurrent registration is required (or allowed) in 4214 or CHEM 4214 or Concurrent registration is required (or allowed) in CHEM 4214 or MATS 4214 or Concurrent registration is required (or allowed) in MATS 4214 or instr consent ; Credit will not be granted if credit has been received for: CHEM 4223W; Meets CLE req of Writing Intensive;
Instructor: Hillmyer, Marc Andrew
Description: Style: 20% Lecture, 80% Laboratory.
Grading: 60% reports/papers, 20% written homework, 20% laboratory evaluation.
MATS 4301W Materials Processing
A-F only, 4 credit(s); prereq 4212, [4214 or Concurrent registration is required (or allowed) in 4214]; Meets CLE req of Writing Intensive;
Instructor: Francis, Lorraine F
Description: Student may contact the instructor or department for information.
MATS 4400 Senior Design Project
A-F only, 3 credit(s); prereq Sr, [MatS major or ChEn major]; Credit will not be granted if credit has been received for: MATS 4402;
Instructor: Macosko, Chris
Description: Student may contact the instructor or department for information.
MATS 4402 Senior Design Thesis II
A-F only, 2 credit(s); prereq 4401; Credit will not be granted if credit has been received for: MATS 4400;
Instructor: Makoju, Chris
Description: Student may contact the instructor or department for information.

MATS 4591 Independent Study in Materials Science
OPT No Aud, 1-3 credit(s), max credits 6, 3 completions allowed; prereq Upper div mat sci;
Instructor: STAFF
Description: Library, theoretical, laboratory, or design studies of scientific or engineering topics in materials science for an individual student. Course content and credits by arrangement with faculty supervisor. Design credits available if arranged with supervisor. May be used for Upper Division Honors Program experience if arranged with advisor and Honors advisor.

MATS 4593 Directed Study in Materials Science
A-F only, 1-4 credit(s), max credits 6, 3 completions allowed; prereq upper div MatS;
Instructor: STAFF
Description: Directed study under faculty supervision. Student should meet with faculty supervisor before registering to arrange study project, grading option, credits, and final report requirements.

MATS 4594 Directed Research in Materials Science
OPT No Aud, 1-3 credit(s), max credits 6, 3 completions allowed; prereq Upper div mat sci;
Instructor: STAFF
Description: Independent laboratory research under faculty supervision. Student should meet with faculty supervisor before registering to arrange research project, credits, grading option, and final report requirements.

MATS 5517 Electron Microscopy
A-F only, 3 credit(s);
Instructor: Mkhoyan, Andre
Description: Student may contact the instructor or department for information.

MATS 5531 Electrochemical Engineering
3 credit(s); prereq Mats 3011 or instr consent, upper div IT or grad; Credit will not be granted if credit has been received for: CHEN 5531;
Instructor: Smyrl, William H
Description: Student may contact the instructor or department for information.

MATS 8003 Electronic Properties
A-F only, 3 credit(s); prereq instr consent;
Instructor: Leighton, Chris
Description: Student may contact the instructor or department for information.

MATS 8004 Mechanical Properties
A-F only, 3 credit(s);
Instructor: Coccoccioli, Matteo
Description: Student may contact the instructor or department for information.

MATS 8211 Physical Chemistry of Polymers
4 credit(s); prereq Undergrad physical chem or instr consent;
Description: Credit will not be granted if credit has been received for: CHEM 8211;
Instructor: Lodge, Timothy P
Description: Student may contact the instructor or department for information.

MATS 8993 Directed Study
1-12 credit(s), max credits 12, 1 completion allowed;
Instructor: Frisbie, C Daniel
Description: Student may contact the instructor or department for information.

MATS 8994 Directed Research
1-12 credit(s), max credits 12, 1 completion allowed;
Instructor: Frisbie, C Daniel
Description: Student may contact the instructor or department for information.

MATS 8995 Special Topics
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Frisbie, C Daniel
Description: Student may contact the instructor or department for information.

Mathematics
127 Vincent Hall

MATH 1001 Excursions in Mathematics
3 credit(s); prereq 3 yrs high school math or placement exam or grade of at least C- in GC 0731; Meets CLE req of Mathematical Thinking Core;
Instructor: Gundacker, Rosemary I
Description: Student may contact the instructor or department for information.

MATH 1031 College Algebra and Probability
3 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1051, 1151, 1155; Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF
Description: Overview: Linear and quadratic equations and inequalities; graphs of equations, including lines, circles, parabolas, composition, inverses of functions; transformations of graphs; linear, quadratic models; polynomials; exponentials; logarithms; counting; probability. Audience: Business majors wanting to take Math 1142 and elementary education majors wanting to take Math 3113. Also works as prerequisite for Math 1151. Satisfies the CLE Mathematical Thinking requirement.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule. 362
MATH 1051 Precalculus I
3 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [PSTL 731 or PSTL 732] Credit will not be granted if credit has been received for: 1031, 1151, 1155;
Instructor: STAFF
Description: This course assumes that students have a good working knowledge of high school algebra, at least through Algebra II. 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; linear, absolute value, polynomial, rational, exponential, and logarithmic functions, with applications. This course is for students who wish to complete precalculus at a moderate pace; the Math 1051/Math 1151 combination is equivalent to Math 1155. This course satisfies the prerequisite for Math 1271 or Math 1371. Math 1051 and Math 1038 essentially equal Math 1031 and satisfies the CLE Mathematical Thinking requirement.
Style: 75% Lecture, 25% Discussion.
Grading: 45% mid exam, 35% final exam, 20% problem solving.
Exam Format: Solve problems such as Graph f(x) = (x^3 - 1)/(x^2 - 9)

MATH 1151 Precalculus II
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1031 or 1051]; Credit will not be granted if credit has been received for: MATH 1271; Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF
Description: This course is designed for people who need only a brief introduction to calculus. Its purpose is to teach you the elements of differential and integral calculus, with an emphasis on business, economics, and the social sciences. This course requires proficiency in algebra. Knowledge of trigonometry is not needed. Some people think that mathematics is too abstract and too distant from everyday life. In this course, the authors of your textbook try to make the material come alive for you. You will be introduced to the ideas of limits of functions at particular points and continuity of functions. These concepts lead to the definitions of derivative and differentiation. You will learn how to differentiate polynomial, rational, exponential, and logarithmic functions. After you master differentiation techniques, you will learn integration techniques and connected processes are applied to solving problems related to real-life situations. You will work problems involving maximization of profits, minimization of costs, and other optimization problems. You will also tackle problems dealing with various rates, taxes, pollution, population growth, pollution levels, worker efficiency, spread of an epidemic, SAT scores, retail sales, radioactive decay, postal regulations, landscaping, experimental psychology, and other topics. Course Outline: Lesson 1: Functions and Limits Lesson 2: Differentiation Lesson 3: Marginal Analysis, Implicit Differentiation, and Related Extrema of Functions Lesson 4: Curve Sketching and Optimization Lesson 5: Midcourse Exam 1 Lesson 6: Exponential and Logarithmic Functions Lesson 7: Integration Lesson 8: Additional Topics in Integration Lesson 9: Midcourse Exam 2 Lesson 10: Calculus of Two Variables Lesson 11: Final Exam Required Textbook: Hoffmann, Laurence D., Gerald L. Bradley, with Kenneth H. Rosen. Calculus for Business, Economics, and the Social and Life Sciences, 10th edition. New York: McGraw-Hill Companies, Inc., 2004. IMPORTANT: Your instructor will not accept coursework based on the use of other editions of this textbook. All assignments for the course are based on the 8th edition, no exceptions. Suggested Supplement: Nichols, Devilyna. Student Solutions Manual for use with Calculus for Business, Economics, and the Social and Life Sciences, 8th Edition. New York: McGraw-Hill Companies, 2004.
Style: This is a printed correspondence section.
Grading: 40% mid exam, 40% final exam, 20% written homework.
Mathematical Thinking Core;
Instructor: STAFF
Description: Overview: Trigonometric functions and inverse trigonometric functions; definitions, graphs, identities, applications; real and complex zeroes of polynomials; polar coordinates; DeMoivre's Theorem; conic sections; solutions of linear systems by substitution and elimination; systems of nonlinear equations and systems of inequalities; arithmetic sequences and geometric series. Audience: Students from Math 1051 or Math 1031 and those that need a little refresh course before going on to calculus, often because of the trig. Satisfies the prerequisite for Math 1271 or Math 1371 and also satisfies the CLE Mathematical Thinking requirement.

MATH 1151 Precalculus II
3 credit(s); prereq Satisfactory score on placement exam or grade of at least C- in [1031 or 1051]; credit will not be granted if credit received for: Math1155; Meets CLE req of Mathematical Thinking Core;
Instructor: Kinney,Donald Patrick
Description: This is a course in algebra, analytic geometry, and trigonometry beyond the usual coverage found in a four-year high school mathematics program. In many places in the course, concepts are developed that will feed into calculus. Depending on your needs, this course can serve as a terminal course in mathematics or as a precursor to higher mathematics. It is designed to prepare students for the full calculus sequence. Course Outline: Lesson 1--Polynomial Functions, submission 1 Lesson 2--Exponential and Logarithmic Functions, submission 2 Lesson 3--Trigonometric Functions, submission 3 Lesson 4--Midcourse Exam 1 Directions, submission 4 Lesson 5--Inverse Trigonometric Functions and Trigonometric Identities, submission 5 Lesson 6--Trigonometric Formulas and Equations, submission 6 Lesson 7--Applications of Trigonometric Functions, submission 7 Lesson 8--Midcourse Exam 2 Directions, submission 8 Lesson 9--Polynomial Coordinates, Partial Fraction Decomposition, and Sequences, submission 9 Lesson 10--Final Exam Directions, submission 10 Course Text: --Sullivan, Michael. Precalculus, 8th edition. New York: Pearson/Prentice Hall, 2008. This textbook comes bundled with Student Solutions Manual, Algebra Review (review of intermediate algebra), a CD Lecture Series tied to Precalculus, and access to the Pearson Tutor Center (one-to-one tutoring for any problem with an answer at the back of the textbook).
Style: This is a printed, correspondence section.
Grading: 40% mid exam, 40% final exam, 20% written homework.
Exam Format: All exams are closed-book; you cannot use any books, notes, or a computer (not even the calculator portion of a computer). No formulas are provided. You may use a hand-held scientific calculator. You cannot bring or use a graphing calculator.

MATH 1171 Calculus, Modeling, and Data I
A-F only, 3 credit(s); prereq Grade of at least C- in 1161 or placement exam; Meets CLE req of Mathematical Thinking Core;
Instructor: Lehmkuhle,Cynthia Louise - Vehorn
Description: Student may contact the instructor or department for information.

MATH 1271 Calculus I
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1151 or 1155]; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF
Description: Overview: Tangent lines: limits and continuity; differentiation: definition, basic rules, chain rule, rules for trig, exp and log functions; implicit differentiation; rates of change, max-min, related rates problems; 2nd derivative test; curve sketching; linear approximation and differentials; L'Hospital's rule; integration: definition, antidifferentiation, area; simple substitution; volumes of solids by cross sections and shells; work, averag, and fluid force. Audience: This is a first semester of the standard course for students outside of IT. Also taken by IT students who need to start calculus in the middle of year. Students desiring only one semester of calculus should take Math 1142.

MATH 1271 Calculus I
4 credit(s); prereq Satisfactory score on placement test or grade of at least C- in [1151 or 1155]; Credit will not be granted if credit has been received for: MATH 1142; Meets CLE req of Mathematical Thinking Core;
Instructor: Frank,David L
Description: The beauty of mathematics lies in its precision. We can see this in the definition of its terms and the proofs of its results. In mathematics, we are asked to believe something only after seeing it proven. The concept of limits is what bridges the gap between the mathematics of algebra and geometry and the mathematics of calculus. In this course you will study one of the central concepts of calculus, the derivative of a function, the most important of which is lines tangent to curves. Determining tangent lines by means of limits leads to the definition of the derivative of a function, which has important applications in connection with velocity, acceleration, and certain economic concepts. We will develop formulas that make calculating the derivative of a function relatively straightforward. The work you invest in memorizing these formulas will pay big dividends in the future. In Math 1271, you will study derivatives of the six trigonometric functions: sine, cosine, secant, cosecant, tangent, and cotangent. You will use the powerful chain rule for finding the derivatives of composite functions. You will also study the mean-value theorem, which is of great importance in theoretical mathematics, and its application to increasing and decreasing functions and to the maxima and minima of functions. In addition, you will find the derivatives of higher orders - especially the second order - that are useful in discussing concavity and the points of inflection of a graph of a given function. Implicit differentiation, a form of the chain rule, is practical in theoretical work and useful in the integration techniques. You will also study basic integrals and their applications.
Style: This is a printed, correspondence section.
Grading: 40% mid exam, 40% final exam, 20% written homework. Please see downloadable syllabus for complete grading 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: STAFF
Description: Overview: Techniques of integration, including integration by parts, simple trig substitutions, partial fractions. Basic numerical integration; improper integrals; arc length; area of surface of revolution. Separable differential equations, Euler's method, exponential growth and decay. Parametric curves and polar coordinates. Review of conic sections. Sequences and series, comparison and ratio tests, Taylor series and polynomials. Vectors in three dimensions, dot product, cross product, lines, planes, cylinders, quadric surfaces; cylindrical and spherical coordinates. Audience: Part of the standard calculus course for students outside of IT.

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: Hewitt,Harlan A
Description: In this course you will study techniques of integration and more applications of integrals. In addition, you will explore the parametric equations of curves and use this system to study more applications of integrals. You will also continue to study polar coordinates. And, you will study some sequences and series. The last major topic of this course is coordinate geometry in three dimensions, which is an introduction to the study of multivariable calculus.
Style: This is a printed, correspondence section.
Grading: 40% mid exam, 40% final exam, 20% written homework. See downloadable syllabus for complete grading information.
MATH 1572H Honors Calculus II
4 credit(s); prerequisite honors student and permission of University Honors Program. Credit will not be granted if credit has been received for: MATH 1272.
Instructor: Spinn, Daniel
Description: Student may contact the instructor or department for information.

MATH 2243 Linear Algebra and Differential Equations
4 credit(s); prerequisite 1272 or 1282 or 1372 or 1572; Credit will not be granted if credit has been received for: MATH 2373.
Instructor: STAFF
Description: Overview. The course is divided into two somewhat related parts. Linear algebra: matrices and matrix operations, Gaussian elimination, matrix inverses, determinants, vector spaces and subspaces, dependence, Wronskian, dimension, eigenvalues, eigenvectors, diagonalization. ODE: Separable and first-order linear equations with applications, 2nd order linear equations with constant coefficients, method of undetermined coefficients, simple harmonic motion, 2x2 and 3x3 systems of linear ODE's with constant coefficients, solution by eigenvalue/eigenvectors, nonhomogeneous linear systems; phase plane analysis of 2x2 nonlinear systems near equilibria. Audience: Part of the standard 2nd year calculus course for students outside of IT.

MATH 2243 Linear Algebra and Differential Equations
4 credit(s); prerequisite 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: In this course you will study the concepts of linear algebra and differential equations. You will start by examining first-order differential equations and their applications. Then you will study linear algebra with some applications. The last major topic you will study is higher order equations and their application to physics. Before you begin studying the topics of this course, you will probably find it helpful to review the calculus of one variable that you studied in Math 1271 (Calculus I) and Math 1272 (Calculus II), or their equivalents. Almost all students will profit from a review of integration techniques. Course Outline: Lesson 1: Vector Functions Lesson 2: Functions of Several Variables; Limits; Partial Derivatives Lesson 3: Tangent Planes; Differentials; the Chain Rule Lesson 4: Directional Derivatives; the Gradient Vector; Maxima and Minima Lesson 5: Midcourse Exam 1 Directions Lesson 6: Double Integrals and Volume Lesson 7: Polar Coordinates; More Applications Lesson 8: Triple Integrals and Change of Variables Lesson 9: Triple Integrals; Cylindrical and Spherical Coordinates Lesson 10: Midcourse Exam 2 Directions Lesson 11: Vector Fields; Line Integrals; Fundamental Theorem Lesson 12: Green's Theorem; Curl; Divergence; Parametric Surfaces Lesson 13: Surface Integrals; Divergence; Stokes Theorem Lesson 14: Final Exam Directions Course Text: Stewart, James. Calculus, Early Transcendentals, 6th edition. Belmont, Calif. Thomson/Brooks/Cole, 2008. This textbook includes an optional CD-ROM. Note: This textbook is also used for Math 1271 and 1272.
Style: This is a printed correspondence section.
Grading: 40% mid exam, 40% final exam, 20% written homework.

MATH 2283 Sequences, Series, and Foundations
3 credit(s); prerequisite concurrent enrollment [2243 or 2263 or 2373 or 2374]; Credit will not be granted if credit has been received for: MATH 3283W.
Instructor: Diacu, Adrian
Description: Student may contact the instructor or department for information.

MATH 2237 IT Linear Algebra and Differential Equations
4 credit(s); prerequisite 1272 or 1282 or 1372 or 1572; IT; Credit will not be granted if credit has been received for: MATH 2243.
Instructor: Miracle, Chester L
Description: Student may contact the instructor or department for information.

MATH 2237 IT Linear Algebra and Differential Equations
4 credit(s); prerequisite 1272 or 1282 or 1372 or 1572; IT; Credit will not be granted if credit has been received for: MATH 2243.
Instructor: Calderon, Carme
Description: Student may contact the instructor or department for information.

MATH 2237 IT Linear Algebra and Differential Equations
4 credit(s); prerequisite 1272 or 1282 or 1372 or 1572; IT; Credit will not be granted if credit has been received for: MATH 2243.
Instructor: Pogan, Alexandru Alin
Description: Student may contact the instructor or department for information.
MATH 2374 IT Multivariable Calculus and Vector Analysis
4 credit(s); prereq [1272 or 1282 or 1372 or 1572], IT; Credit will not be granted if credit has been received for: MATH 2263; 
Instructor: Gulliver II, Robert D 
Description: Student may contact the instructor or department for information.

MATH 2374 IT Multivariable Calculus and Vector Analysis
4 credit(s); prereq [1272 or 1282 or 1372 or 1572], IT; Credit will not be granted if credit has been received for: MATH 2263; 
Instructor: Wang, Jiaping 
Description: Student may contact the instructor or department for information.

MATH 2574H Honors Calculus IV
4 credit(s); prereq 2573H, honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: MATH 2243; 
Instructor: Prikry, Karel L 
Description: Student may contact the instructor or department for information.

MATH 3283W Sequences, Series, and Foundations: Writing Intensive
4 credit(s); prereq concurrent enrollment in [2243 or 2263 or 2373 or 2374]; Credit will not be granted if credit has been received for: MATH 2283; Meets CLE req of Writing Intensive; 
Instructor: Keynes, Harvey Bayard 
Description: Student may contact the instructor or department for information.

MATH 3593H Honors Mathematics II
A-F only, 5 credit(s); prereq 3592H or instr consent; 
Instructor: Moeckel, Richard B 
Description: Student may contact the instructor or department for information.

MATH 4065 Theory of Interest
3 credit(s); prereq 1272 or 1372 or 1572; primarily for [mathematics, business] majors interested in actuarial science; 
Instructor: O'Brien, Larry John 
Description: Student may contact the instructor or department for information.

MATH 4152 Elementary Mathematical Logic
3 credit(s); prereq one soph math course or instr consent; Credit will not be granted if credit has been received for: MATH 5165; 
Instructor: Messing, William 
Description: Student may contact the instructor or department for information.

MATH 4242 Applied Linear Algebra
4 credit(s); prereq 2243 or 2373 or 2573; Credit will not be granted if credit has been received for: MATH 4457; 
Instructor: Jiang, Dihua 
Description: Student may contact the instructor or department for information.

MATH 4281 Introduction to Modern Algebra
4 credit(s); prereq 2283 or 3283 or instr consent; 
Instructor: Li PhD, Tian-Jun 
Description: Student may contact the instructor or department for information.

MATH 4283W Honors: Fundamental Structures of Algebra II
4 credit(s); prereq 2283; 
Instructor: Lawson, Tyler 
Description: Student may contact the instructor or department for information.

MATH 4428 Mathematical Modeling
4 credit(s); prereq 2243 or 2373 or 2573; 
Instructor: Gulliver II, Robert D 
Description: Student may contact the instructor or department for information.

MATH 4512 Differential Equations with Applications
3 credit(s); prereq 2243 or 2373 or 2573; 
Instructor: Rejto, Peter A 
Description: Student may contact the instructor or department for information.

MATH 4567 Applied Fourier Analysis
4 credit(s); prereq 2243 or 2373 or 2573; 
Instructor: Littman, Walter 
Description: Student may contact the instructor or department for information.

MATH 4606 Advanced Calculus
4 credit(s); prereq [2263 or 2374 or 2573], [2283 or 2374 or 3283 or instr consent]; Credit will not be granted if credit has been received for: 5615; 
Instructor: Meyers, Norman G 
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 2374 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: Fristedt, Bert 
Description: Student may contact the instructor or department for information.

MATH 5068 Actuarial Mathematics II
4 credit(s); prereq 5067; 
Instructor: O'Brien, Larry John 
Description: Student may contact the instructor or department for information.

MATH 5076 Mathematics of Options, Futures, and Derivative Securities II
A-F only, 4 credit(s); prereq 5075; 
Instructor: Shemyakin, Arkady 
Description: Student may contact the instructor or department for information.

MATH 5165 Mathematical Logic I
4 credit(s); prereq 5165; 
Instructor: Richter, Wayne H 
Description: Math 5165 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 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: Baxter, John Robert 
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: Diaconu, Adrian 
Description: Student may contact the instructor or department for information.

MATH 5256H Honors: Fundamental Structures of Algebra II
4 credit(s); prereq 5256; 
Instructor: Lawson, Tyler 
Description: Student may contact the instructor or department for information.
MATH 5378 Differential Geometry
4 credit(s); prereq [2263 or 2374 or 2573], [2243 or 2373 or 2574]; [2263 or 3263] recommended;
Instructor: Fashbach,Mark F
Description: Student may contact the instructor or department for information.

MATH 5385 Introduction to Computational Algebraic Geometry
4 credit(s); prereq [2263 or 2374 or 2573], [2243 or 2373 or 2574];
Instructor: Brenner,Eliot P
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: Sayas,Francisco Javier
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: Saforov,Mikhail V
Description: Student may contact the instructor or department for information.

MATH 5588 Elementary Partial Differential Equations II
A-F only, 4 credit(s), max credits 400, 1 completion allowed;
prereq [[2243 or 2373 or 2573], [2283 or 2574 or 2574], 5587] or instr consent ;
Instructor: Bao,ShiTing
Description: Student may contact the instructor or department for information.

MATH 5616H Honors: Introduction to Analysis II
4 credit(s); prereq 5615;
Instructor: Anderson,Greg William
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 Freder
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: Frank,David L
Description: Student may contact the instructor or department for information.

MATH 5651 Basic Theory of Probability and Statistics
4 credit(s); prereq [2263 or 2374 or 2573], [2243 or 2373]; [2283 or 2574 or 3283] recommended; Credit will not be granted if credit has been received for: Stat 4101, Stat 5101;
Instructor: Fristedt,Bert
Description: Student may contact the instructor or department for information.

MATH 5652 Algebraic Geometry
A-F only, 3 credit(s); prereq 8253 or instr consent;
Instructor: Messing,William
Description: Student may contact the instructor or department for information.

MATH 5654 Prediction and Filtering
4 credit(s); prereq 5651 or Stat 5101;
Instructor: Krylov,Nicolai Vladimi
Description: Style: 100% Lecture.
Grading: 33% mid exam, 34% final exam, 33% problem solving.
Exam Format: 2 hour exam

MATH 5707 Graph Theory and Non-enummerative Combinatorics
4 credit(s); prereq [2243 or 2373 or 2573], [2283 or 2574 or 2574]; [2263 or 3263 or experience in writing proofs] highly recommended; Credit will not be granted if credit has been received for: 4707;
Instructor: Reiner,Victor Schorr
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 completion 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: Cooper,Bobbe J
Description: Student may contact the instructor or department for information.

MATH 8211 Commutative and Homological Algebra
A-F only, 3 credit(s); prereq 8211 or instr consent;
Instructor: Garrett,Paul B
Description: This is a continuation of Math 8211. Basic ideas of category theory, mapping properties, adjoint pairs of functors, Yoneda's lemma, derived functors computed by projective or injective resolutions. Categories of modules and similar abelian categories. Various classes of rings admitting homological characterizations. Basic results about ring extensions: Hilbert basis theorem, nullstellensatz, primes-lying-over, syzygies. Ext and Tor functors. Introduction to sheaf cohomology as Cech and derived-functor. DeRham and Dolbeault isomorphisms. Localization and derived categories as time permits.

MATH 8227 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 8366 Riemannian Geometry
A-F only, 3 credit(s); prereq 8365 or instr consent;
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: Monson,Debra Sue
Description: Math content knowledge of K-6 in an environment modeling pedagogy for future implementation. Integrated content/methods. Problem solving, connections, communication, reasoning, representation. Functions, proportionality, number, numeration.

MTHE 3102 Mathematics and Pedagogy for Elementary Teachers II
A-F only, 4 credit(s); prereq 3101, college algebra;
Instructor: Cramer,Kathleen Ann
Description: Student may contact the instructor or department for information.

MTHE 5031 Geometric Structures in School Mathematics
3 credit(s); prereq Enrollment in math initial licensure program;
Instructor: Moore,Tamara J.
Description: Pedagogy, content, and instructional strategies for teaching school geometry. Content and issues relevant to the geometry curriculum. Instructional materials and technology appropriate for geometry. Each offering will focus on either elementary/middle or middle/secondary grade levels.

MTHE 5355 Mathematics for Diverse Learners
3 credit(s); prereq Teaching license or student in elem ed or special ed or instr consent;
Instructor: Clarkson,Lesa M
Description: Student may contact the instructor or department for information.

MTHE 5366 Technology-Assisted Mathematics Instruction
3 credit(s);
Instructor: Wyberg,Terrence R
Description: Technology--including computers, programmable and graphing calculators, and video--as instructional tools in mathematics; design and evaluation of technology-based mathematics lessons; the effect of technology on the mathematics curriculum; managing the technology-enriched classroom.

MTHE 5696 Student Teaching in Mathematics
S-N only, 1-8 credit(s), max credits 8, 1 completion allowed;
prereq MEd/initial licensure student or instr consent;
Instructor: STAFF
Description: Student teaching in secondary school mathematics classes.

MTHE 5993 Directed Studies in Mathematics Education
S-N only, 2 credit(s), max credits 3, 1 completion allowed;
prereq Math ed MEd student, instr consent;
Instructor: STAFF
Description: Secondary school classroom teaching project designed to improve specific teaching skills, planned by student and approved and directed by student's adviser as part of MthE program.
MTHE 8591 Seminar: Mathematics Education
1-3 credit(s), max credits 3, 1 completion allowed; prereq Math educ PhD student;
Instructor: Clarkson,Lesa M
Description: Student may contact the instructor or department for information.

Mechanical Engineering
125 Mechanical Engineering

ME 3041 Industrial Assignment I
A-F only, 2 credit(s); prereq ME upper div, enrolled in ME co-op program;
Instructor: Marple, Virgil A
Description: (2 or 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: Kelso, Frank M
Description: Student may contact the instructor or department for information.

ME 3221 Design and Manufacturing II: Engineering Materials and Manufacturing Processes
A-F only, 4 credit(s); prereq 2011, AEM 3031, MatS 2001, ME upper div;
Instructor: Kelso, Frank M
Description: Student may contact the instructor or department for information.

ME 3222 Design and Manufacturing II
A-F only, 4 credit(s); prereq [3221 or Concurrent registration is required (or allowed) in 3221], [CSci 1113 or equiv], ME upper div;
Instructor: Cui, Tianhong
Description: Student may contact the instructor or department for information.

ME 3331 Thermal Sciences I
A-F only, 3 credit(s); prereq Chem 1021, Phys 1301, IT student;
Instructor: Girshick, Steven L
Description: Student may contact the instructor or department for information.

ME 3332 Thermal Sciences II
A-F only, 3 credit(s); prereq Math 2243, 3331, ME upper div credit will not be granted if credit already received for: ME 3322;
Instructor: Hogan, Chris
Description: Student may contact the instructor or department for information.

ME 3333 Thermal Sciences III
A-F only, 3 credit(s); prereq 3332, ME upper div credit will not be granted if credit already received for: ME 3322;
Instructor: Davidson, Jane H
Description: Student may contact the instructor or department for information.

ME 4031W Basic Mechanical Measurements Laboratory
A-F only, 4 credit(s); prereq [3333 or Concurrent registration is required (or allowed) in 3333], IE 4521, upper div ME;
Instructor: McMurry, Peter H
Description: Student may contact the instructor or department for information.

ME 4043W Industrial Assignment II
A-F only, 4 credit(s); prereq 3041; Meets CLE req of Writing Intensive;
Instructor: Marple, Virgil A
Description: Student may contact the instructor or department for information.

ME 4044 Industrial Assignment III
A-F only, 2 credit(s); prereq ME upper div, registration in ME co-op program;
Instructor: Marple, Virgil A
Description: Student may contact the instructor or department for information.

ME 4054W Design Projects
A-F only, 4 credit(s); prereq 2011, 3221, 3222, 3281, 3321, 3322, 4031W, AEM 2021, AEM 3031, EE 3005; Meets CLE req of Writing Intensive;
Instructor: Chase, Thomas Richard
Description: Student may contact the instructor or department for information.

ME 4131W Thermal Environmental Engineering Laboratory
A-F only, 4 credit(s); prereq 3322, 4031W, [ME upper div or grad student]; Meets CLE req of Writing Intensive;
Instructor: Ramsey, James W
Description: Student may contact the instructor or department for information.

ME 4231 Motion Control Laboratory
A-F only, 4 credit(s); prereq 3281, 4031W, ME upper div;
Instructor: Sun, Zongxuan
Description: Student may contact the instructor or department for information.

ME 4232 Fluid Power Control Lab
A-F only, 4 credit(s); prereq 3281, 4031W, ME upper div;
Instructor: Stelson, Kim A
Description: Student may contact the instructor or department for information.

ME 4232 Fluid Power Control Lab
A-F only, 4 credit(s); prereq 3281, 4031W, ME upper div;
Instructor: Stelson, Kim A
Description: Student may contact the instructor or department for information.

ME 4331 Thermal Engineering Laboratory
A-F only, 4 credit(s); prereq [3211, 3322, 4031W], [IT upper div or grad student];
Instructor: Goldstein, Richard J
Description: Student may contact the instructor or department for information.

ME 5080 Topics in Mechanical Engineering: Energy: Resources, Technology and Society
3 credit(s), max credits 4, 1 completion allowed; prereq IT upper div or grad student, submission of permission form, inst consent;
Instructor: Kulacki, Francis A
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
ME 5090 Advanced Engineering Problems  
1-4 credit(s), max credits 4, 1 completion 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 5116 Cleanroom Technology and Particle Monitoring  
A-F only, 4 credit(s); prereq IT upper div or grad student;  
Instructor: Pui,David Y  
Description: Student may contact the instructor or department for information.

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 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, digitization, 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. There will also be several smaller projects dealing with the computer vision part of the course. Prerequisite: ME3281 System Dynamics and Control, or equivalent. Recommended: Background in C programming. However, it is possible to pick up what you need in the first few weeks of class.  
Style: 90% Lecture, 10% Discussion.  
Grading: 50% special projects, 50% quizzes.  
Exam Format: Solve problems (open book, open notes)

ME 5341 Case Studies in Thermal Engineering and Design  
A-F only, 4 credit(s); prereq IT upper div or grad student, 3321, 3322;  
Instructor: Sparrow,Ephraim M  
Description: This course may be the most useful among those offered in mechanical engineering. Real-world engineering problems are brought into the classroom. To solve problems of such real complexity, powerful computational tools are taught. These include ANSYS thermal (heat conduction), ANSYS structural and thermal stresses. The main part of the course is computational fluid dynamics (CFD). For this, CFX software is taught. These software codes are applied to numerous real-world problems. No prior experience with software is needed. No exams or quizzes. No textbook. Two projects. One-on-one computer lab help is available.

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: 80% special projects, 5% 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 6222 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: Rao,Dileep R  
Description: Student may contact the instructor or department for information.

ME 6243 Topics in Design  
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;  
Instructor: Durfee,William K  
Description: Student may contact the instructor or department for information.

ME 8342 Convection  
A-F only, 3 credit(s); prereq Grad level course on fundamentals of fluid mechanics that has a substantial component on viscous flows or instr consent ;  
Instructor: Simon,Terence 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 8381 Bioheat and Mass Transfer  
3 credit(s); prereq IT grad student, upper-division transport/fluids course; [physics, biology] recommended;
Instructor: Bischof, John C
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 completions 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 completions 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 completions allowed;
Instructor: Sparrow, Ephraim M
Description: Student may contact the instructor or department for information.

ME 8773 Graduate Seminar
S-N only, 1 credit(s); prereq IT grad student;
Instructor: Garlick, Sean Clifford
Description: Student may contact the instructor or department for information.

ME 8774 Graduate Seminar
S-N only, 1 credit(s); prereq 8773;
Instructor: Garlick, Sean Clifford
Description: Student may contact the instructor or department for information.

ME 8794 Mechanical Engineering Research
1-6 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Durfee, William K
Description: Student may contact the instructor or department for information.

MILI 5995 Medical Industry Valuation Laboratory
A-F only, 2 credit(s); prereq instr consent;
Instructor: Nelson, Randall Stephen
Description: Student may contact the instructor or department for information.

MILI 5999 Independent Study
A-F only, 1-8 credit(s), max credits 16;
Instructor: Parente, Stephen T
Description: Student may contact the instructor or department for information.

MILI 6235 Pharmaceutical Industry: Business and Policy
A-F only, 2 credit(s); prereq MBA student;
Instructor: Parente, Robert Alan
Description: Pharmaceutical Industry: Business and Policy: This course is a joint venture of the Carlson School of Management and the College of Pharmacy at the University of Minnesota. In addition to academic faculty from these schools, the course also engages the participation of key leaders in the pharmaceutical industry and the health sector in general. The panel format, followed by exceptions during which students can meet executives, facilitates opportunities for interaction among guest faculty and students. This course is designed to engage full-time and working professional students in the fields of management and pharmacy though interdisciplinary exposure to key business and policy aspects of the pharmaceutical industry. For general management students, it provides exposure to the technical, clinical and policy issues of the pharmaceutical industry. For pharmacy students, it provides additional exposure to the business, financial, and entrepreneurial aspects of the pharmaceutical industry. For all, it provides an excellent opportunity for interdisciplinary learning and networking.

MILI 6589 Medical Technology Evaluation and Market Research
A-F only, 2 credit(s); prereq MBA student;
Instructor: Parente, Stephen T
Description: Hands-on experience in creating a value proposition for new medical technologies. Leadership pathways in medical technology, insurance, and delivery industries. Personal input from industry leaders United Health Group, Medtronic, and Mayo Clinic.

MILI 6726 Medical Device Industry: Business and Public Policy
A-F only, 3 credit(s); prereq MBA student;
Instructor: Connor, Robert Alan
Description: Medical Device Industry: Business and Public Policy: This course covers the unique business, public policy, regulatory, and technology management issues of the medical device industry -- including growing interaction and overlap with the pharmaceutical, biotechnology, and information technology industries. The course features lecture and discussion with full time faculty, along with participation by industry leaders in guest faculty panels. Students successfully completing this course will understand: the historical development, importance, and future direction of the medical device industry; FDA issues, policies and strategies, public and private sector insurance coverage and reimbursement; interaction between public policies and private sector actions; intellectual property (IP) and liability issues concerning medical technology; and key issues relating to the start-up and management of new medical technology firms.

MILI 6990 The Health Care Marketplace
A-F only, 2 credit(s); prereq MBA student;
Instructor: Parente, Stephen T
Description: Survey of trillion dollar medical industry. Physician/hospital services, insurance, pharmaceuticals, medical devices, information technology. Scale, inter-relationships, market opportunities, barriers.

MILI 6991 Anatomy and Physiology for Managers
A-F only, 2 credit(s);
Instructor: Hertzberg, Jeffrey K
Description: Overview of medical vocabulary/physiology of major body systems. Understanding current clinical practice. Market opportunities of major body systems. Medical technology innovation.

MILI 6995 Medical Industry Valuation Laboratory
OPT No Aud, 2 credit(s), max credits 6, 3 completions allowed; prereq Grad student;
Instructor: STAFF
Description: Interdisciplinary student teams create rapid production market analysis of promising medical technologies/services to determine potential for success in market. Exposure to University innovations, venture firms, inventors.

MILI 6996 Medical Industry Valuation Laboratory II
OPT No Aud, 2-4 credit(s), max credits 10, 3 completions allowed; prereq Approved application;
Instructor: Nelson, Randall Stephen
Description: Student may contact the instructor or department for information.

MILI 6999 Independent Study
A-F only, 1-8 credit(s), max credits 16;
Instructor: STAFF
Description: Student may contact the instructor or department for information.
MEDC 5710 General Principles of Medicinal Chemistry
A-F only, 2 credit(s); prereq MedC grad student or instr consent;
Instructor: Amin, Elizabeth Ambrose
Description: Student may contact the instructor or department for information.

MEDC 8100 Medicinal Chemistry Seminar
1 credit(s), max credits 6, 6 completions allowed; prereq Grad major or instr consent;
Instructor: Abui-Hajj, Yusuf J
Description: Student may contact the instructor or department for information.

MEDC 8700 Advanced Concepts in Drug Design
A-F only, 2 credit(s); prereq 5600 or instr consent; Credit will not be granted if credit has been received for: PHAR 6247H;
Instructor: Tret'yakova, Natalia Yurievna
Description: Student may contact the instructor or department for information.

MEDC 8760 Design of Peptidomimetics
A-F only, 2 credit(s); prereq 5600 or instr consent;
Instructor: Johnson, Rodney L.
Description: Student may contact the instructor or department for information.

MEDC 8800 Medicinal Chemistry Laboratory Techniques
S-N only, 1-2 credit(s), max credits 4, 4 completions allowed; prereq Grad med chem major or instr consent;
Instructor: Wagner, Carston R
Description: Student may contact the instructor or department for information.

MEDC 8900 Research in Medicinal Chemistry
A-F only, 1-4 credit(s), max credits 8, 8 completions allowed; prereq Grad med chem major or instr consent;
Instructor: Wagner, Carston R
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Shackelford, Jole Richard
Description: Student may contact the instructor or department for information.

MEST 3610 Topics in Medieval Studies
3-4 credit(s), max credits 24, 8 completions allowed;
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 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 4610 Intermediate Topics in Medieval Studies: Old English II
3 credit(s), max credits 32, 8 completions allowed;
Instructor: Scheil, Andrew
Description: Old English I. This course is an introduction to the rich language and literature of Anglo-Saxon England (circa. 500-1100). "Old English," or as it is sometimes known, "Anglo-Saxon," is the earliest form of the English language; therefore, the primary course goal will be to acquire the ability to read Old English texts in the original. No previous experience with Old English or any other language is necessary or expected; undergraduates and graduate students are welcome. This course fulfills the literary theory/linguistic requirement for the undergraduate English major. A knowledge of Old English will allow you to touch the most ancient literary sensibilities in the English tradition; these sensibilities are familiar and strange at the same time, as we sense our deep cultural connection to these texts across the centuries, yet at the same time feel that the past is a strange place indeed. The power of Old English literature has profoundly influenced authors such as Tennyson, Pound, Graves, Wilbur, Hopkins, Gunn, Auden, Seamus Heaney, C.S. Lewis, and of course, J.R.R. Tolkien. The first half of the course will be spent on the basics of Old English morphology and syntax, with brief readings and exercises drawn from a variety of Anglo-Saxon sources-magic charms, the bible, riddles, monster tales, medical texts, homilies. In the second half of the course we will translate more extensive selections from religious and historical prose, as well as religious, elegiac, and heroic battle poetry.

MEST 5610 Advanced Topics in Medieval Studies: Middle High German: Adv Rdgs
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent;
Instructor: Firchow, Evelyn S
Description: This course is a continuation of German 5721. We will be reading and analyzing medieval literature in the original. A basic reading knowledge of MHG is expected and translations will be into English. MHG grammar will be studied in depth. We will be reading selections from MHG Minnesang as well as parts of the famous medieval epic "Tristan" by Gottfried von Strassburg - the Vienna edition. Students will write a paper on a topic of their choice.

MEST 5610 Advanced Topics in Medieval Studies: Topics in Old Norse Literature
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent;
Instructor: Liberman, Anatoly
Description: Student may contact the instructor or department for information.

MEST 5610 Advanced Topics in Medieval Studies
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent;
Instructor: Lower, Michael T
Description: This seminar focuses on relations among Christians, Muslims, and Jews during medieval and early modern times. It was an age of Muslim and Christian expansion, of jihad and crusade, of anti-Jewish violence and persecution. The tendency in our current historical situation is to focus on these more violent dimensions of inter-religious relations and this course will certainly explore them fully. At the same time, though, the class will address the more peaceful forms of interfait contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce.
intellectual and cultural exchange, and religious dialog and disputation. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfaith relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.

Style: 100% Discussion.
Grading: 50% reports/papers, 50% class participation.

MEST 5610 Advanced Topics in Medieval Studies: The Medieval Church
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent
Instructor: Casale, Giancarlo
Description: This seminar focuses on relations among Christians, Muslims, and Jews during medieval and early modern times. It was an age of Muslim and Christian expansion, of jihad and crusade, of anti-Jewish violence and persecution. The tendency in our current historical situation is to focus on these more violent dimensions of inter-religious relations and this course will certainly explore them fully. At the same time, though, the class will address the more peaceful forms of interfaith contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce, intellectual and cultural exchange, and religious dialog and disputation. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfaith relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.

Style: 100% Discussion.
Grading: 50% reports/papers, 50% class participation.

MEST 5610 Seminar in Medieval Studies
3 credit(s), max credits 15, 5 completions allowed; prereq One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent
Instructor: Casale, Giancarlo
Description: This seminar focuses on relations among Christians, Muslims, and Jews during medieval and early modern times. It was an age of Muslim and Christian expansion, of jihad and crusade, of anti-Jewish violence and persecution. The tendency in our current historical situation is to focus on these more violent dimensions of inter-religious relations and this course will certainly explore them fully. At the same time, though, the class will address the more peaceful forms of interfaith contact that were equally a hallmark of medieval early and modern life in the Mediterranean basin: trade and commerce, intellectual and cultural exchange, and religious dialog and disputation. By studying the dynamic interplay of conflict and co-existence, sometimes fruitful and sometimes destructive, in interfaith relations, you will have the opportunity to assess one significant aspect of the richly ambiguous historical legacy the medieval and early modern periods have bequeathed to modernity.

Style: 100% Discussion.
Grading: 50% reports/papers, 50% class participation.

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 WECBT VISTA. Course texts: Mcf B 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
Description: Evolution/structure of microbial communities. Abiotic and biotic factors influencing presence and persistence of
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, and meets with, Micb 4171. Microbiology majors have priority for the seats in 4141W. The course is a principle-based discussion of virology, emphasizing common reactions that must be completed by all viruses for successful replication within a host cell and survival 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. We will use iClickers to engage with the material and each other. 4141W and 4171 have an integral WebCT site on which lecture outlines, study guides, info updates and learning prompts are posted. 4141W students will also participate in ~7 mandatory small group meetings, focused on writing in the discipline. NOTE: Attached syllabus is a very preliminary draft for this year.
Style: 60% Lecture, 23% Discussion, 15% Small Group Activities, 2% Guest Speakers. Active learning, discussion Grading: 23% final exam, 25% reports/papers, 5% special projects, 10% written homework, 27% additional semester exams, 10% other evaluation. iClicker questions/quizzes together will count for 10% of the total achievable points.
Exam Format: Multiple choice, short answer, and essay questions. iClicker questions/quizzes together will count for 10% of the total achievable points.

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 4022] recommended;
Instructor: Cleary PhD 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 optional. Grades will be based on three examinations, team research paper and an individual research paper. The final grade is not curved.
Style: 60% Lecture, 15% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Guest Speakers.
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 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, microbiology, biochemistry and GCD. It is also recommended for graduate students in related sciences. This course is a principle-based (not a virus-by-virus) discussion of virology, emphasizing common reactions that must be completed by all viruses for successful replication within a host cell and survival and spread within a host population. The molecular basis of alternative reproductive cycles, the interactions of viruses with host organisms, and how these lead to disease will be presented with examples drawn from a set of representative animal viruses. To achieve course objectives, lectures are combined with active learning techniques and activities. We will use iClickers to engage with the material and each other. Micb 4171 has an integral WebCT site on which lecture outlines, study guides, info updates and learning prompts are posted. 4171 is IDENTICAL to 4141W with the exception that 4141W students will also participate in small group meetings, focused on writing in the discipline, and complete additional assignments. NOTE: Attached syllabus is a very preliminary draft for this year.
Style: 70% Lecture, 12% Discussion, 15% Small Group Activities, 3% Guest Speakers.
Grading: 42% mid exam, 30% final exam, 5% special projects, 13% written homework, 10% other evaluation. iClicker questions/quizzes together will count for 10% of the total achievable points.
Exam Format: Multiple choice, short answer, short essay. Study guides preview many of the possible essay questions.

MICB 4235 Advanced Laboratory: Virology, Immunology, and Microbial Genetics
3 credit(s); prereq 3301, BIO 3021, two [one completed, one concurrent] from [4131, 4141W, 4151, 4171];
Instructor: Bresnaham,Wade A
Description: This laboratory course provides students with hands on training using state of the art molecular biology techniques to address fundamental questions in biology. Emphasis will be placed on techniques relating to virology, immunology, bacterial genetics, and molecular biology, however, all techniques covered in this course are widely used in all biology specialties (i.e., neurobiology, genetics, cell biology, etc). Specific topics covered in the course include DNA, RNA and protein analysis, gene cloning, virus propagation, flow cytometry, bioassays, and cell culture techniques.
Style: 10% Lecture, 10% Discussion, 80% Laboratory.
Grading: 40% mid exam, 20% final exam, 25% reports/papers, 5% quizzes, 5% written homework, 3% in-class presentation, 2% class participation.
Exam Format: Multiple choice, matching, true/false, short answer, and essay questions.

MICB 5205 Microbiology and Immunology for Medical Students A-F only, 7 credit(s); prereq Micb 3301, Micb 4131;
Instructor: Schlievert,Patrick M
Description: Student may contact the instructor or department for information.
Microbiology, Immunology, and Cancer Biology
1460 Mayo (Box 196 UMHC)

MICA 8003 Immunity and Immunopathology
4 credit(s); prereq Upper level undergrad microbiology course or instr 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); prereq [One undergrad or grad course each in [biochemistry, cell biology] or instr consent;
Instructor: McCarthy, James B
Description: Student may contact the instructor or department for information.

MICA 8005 Topics in Microbiology, Immunology, and Cancer Biology
1-4 credit(s), max credits 4, 1 completion allowed; prereq 8001, two of [8002 or 8003 or 8004];
Instructor: Largaspada, David Andrew
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); prereq 8004 or [BioC 3021, Biol 4004] or instr consent;
Instructor: Ahmed, Khalil
Description: Student may contact the instructor or department for information.

MICA 8910 Seminar: Faculty Research Topics
S-N only, 1 credit(s), max credits 10, 10 completions allowed; prereq [MIMP or MICa] grad student or;
Instructor: Armstrong, Sandra K
Description: Student may contact the instructor or department for information.

MICA 8920 Seminar: Student Research Topics
S-N only, 1 credit(s), max credits 10, 10 completions allowed; prereq [MIMP or MICa] grad student or instr consent;
Instructor: Armstrong, Sandra K
Description: Student may contact the instructor or department for information.

Military Science
110 Armory

MIL 104 MS I Zero Credit Lead Lab
A-F only, 0 credit(s); prereq Concurrent registration is required (or allowed) in 1102;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MIL 204 MS II Zero Credit Lead Lab
A-F only, 0 credit(s); prereq Concurrent registration is required (or allowed) in 1202;
Instructor: Crawford, Todd Robert
Description: Student may contact the instructor or department for information.

MIL 304 MS III Zero Credit Lead Lab
A-F only, 0 credit(s); prereq Completion of basic courses, Concurrent registration is required (or allowed) in 3302;
Instructor: Boisen, David J
Description: Student may contact the instructor or department for information.

MIL 404 MS IV Zero Credit Lead Lab
A-F only, 0 credit(s); prereq Completion of basic courses,
Concurrent registration is required (or allowed) in 3402;
Instructor: Conway, Michael
Description: Student may contact the instructor or department for information.

MIL 1102 Introduction to Tactical Leadership
A-F only, 1 credit(s);
Instructor: Leonard, Doug Richard
Description: Leadership fundamentals such as setting direction, problem-solving, listening, presenting briefs, providing feedback, and using effective writing skills. Cadets explore dimensions of leadership attributes and core leader competencies in the context of practical, hands-on, and interactive exercises.
Style: 70% Lecture, 30% Discussion.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% quizzes.

MIL 1104 MS I One Credit Lead Lab
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 1102;
Instructor: Leonard, Doug Richard
Description: Student may contact the instructor or department for information.

MIL 1202 Foundations of Tactical Leadership
A-F only, 2 credit(s); prereq Must enroll in lab.;
Instructor: Boisen, David J
Description: Examines the challenges of leading tactical teams in the complex contemporary operating environment. Highlights the dimensions of terrain analysis, patrolling, and operation orders. Further studies of the theoretical bases of the Army leadership framework explore the dynamics of adaptive leadership in the context of military operations. This course provides a transition to the junior year of ROTC, where cadets enter the advanced portion of the program. Cadets develop greater self awareness as they assess their own leadership styles and practice communication and team building skills. Case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios.
Style: 50% Lecture, 5% Film/Video, 5% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Demonstration, 5% Guest Speakers, 10% Web Based.
Grading: 10% mid exam, 10% final exam, 20% reports/papers, 10% quizzes, 30% attendance, 10% reflection paper, 10% in-class presentation.

MIL 1202 Foundations of Tactical Leadership
A-F only, 2 credit(s); prereq Must enroll in lab.;
Instructor: Crawford, Todd Robert
Description: Student may contact the instructor or department for information.

MIL 1204 MS II One Credit Lead Lab
A-F only, 1 credit(s); prereq Concurrent registration is required (or allowed) in 1202;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MIL 3302 Applied Team Leadership
A-F only, 3 credit(s); prereq Two yrs of ROTC or equiv established by U.S. Army, must see Army ROTC dept officials, Concurrent registration is required (or allowed) in lab.;
Instructor: Boisen, David J
Description: Student may contact the instructor or department for information.

MIL 3304 MS III One Credit Lead Lab
A-F only, 1 credit(s); prereq Completion of basic courses,
Concurrent registration is required (or allowed) in 3302;
Instructor: Boisen, David J
Description: Student may contact the instructor or department
for information.

MIL 3402 Leadership in a Complex World
A-F only, 3 credit(s); prereq Completion of all other military
courses or Army equiv. Concurrent registration is required
(or allowed) in 3402;
Instructor: Conway, Michael
Description: Student may contact the instructor or department
for information.

MIL 3404 MS IV One Credit Lead Lab
A-F only, 1 credit(s); prereq Completion of basic courses,
Concurrent registration is required (or allowed) in 3402;
Instructor: Conway, Michael
Description: Student may contact the instructor or department
for information.

MIL 3502 Marksmanship Training Programs
A-F only, 2 credit(s); prereq MS [III or IV] cadet;
Instructor: Lykens, David A.
Description: Student may contact the instructor or department
for information.

MIL 3970 Military History
A-F only, 3 credit(s);
Instructor: Leonard, Doug Richard
Description: General overview of all wars fought by the United
States from our Revolutionary War to today's Global War on
Terrorism. Military tactics as well as wars' impact on society will
be covered. Course consists of 2 exams, 2 papers to write, and
700 pages of reading in the text books.
Style: 50% Lecture, 30% Discussion, 20% Guest Speakers.
Grading: 20% mid exam, 20% final exam, 35% reports/papers,
25% written homework.

Modern Greek
325 Social Sciences

MDGK 1002 Beginning Modern Greek II
4 credit(s); prereq 1001 or instr consent;
Instructor: Stavrou, Theofanis G
Description: Student may contact the instructor or department
for information.

Molecular Cellular Developmental Biol and Genetics
250 Biological Sciences

MCDG 8900 Student Research Seminar
S-N only, 1 credit(s), max credits 10, 10 completions
allowed; prereq Grad MCDG or BMBB major or dept consent;
Instructor: Conklin, Kathleen F
Description: Student may contact the instructor or department
for information.

MCDG 8910 Journal Presentations
S-N only, 1 credit(s), max credits 2; prereq Grad MCDG or
BMBB major or dept consent;
Instructor: Shaw, Jocelyn E
Description: Student may contact the instructor or department
for information.

MCDG 8950 Teaching Practicum
S-N only, 1 credit(s), max credits 2; prereq Grad MCDG
major or dept consent;
Instructor: Neufeld, Thomas Peter
Description: Student may contact the instructor or department
for information.

MCG 8994 Research
S-N only, 1-5 credit(s), max credits 10, 10 completions
allowed; prereq MCGD grad student or dept consent;
Instructor: Conklin, Kathleen F
Description: Student may contact the instructor or department
for information.

Mortuary Science
A-275 Mayo (Box 740)

MORT 3005 History of Funeral Service
A-F only, 2 credit(s);
Instructor: Mathews, Michael Clark
Description: Student may contact the instructor or department
for information.

MORT 3014 Funeral Service Rules and Regulations
A-F only, 2 credit(s); prereq Mortuary science major;
Instructor: Mathews, Michael Clark
Description: Student may contact the instructor or department
for information.

MORT 3016 Funeral Service Marketing and Merchandising
A-F only, 3 credit(s); prereq Mortuary science major;
Instructor: Woosley, Angela
Description: Student may contact the instructor or department
for information.

MORT 3019 Funeral Practice II
A-F only, 3 credit(s); prereq 3018, mortuary science major;
Instructor: Mathews, Michael Clark
Description: Student may contact the instructor or department
for information.

MORT 3022W Funeral Service Arrangements
A-F only, 3 credit(s); prereq 3021W; Meets CLE req of
Writing Intensive;
Instructor: Woosley, Angela
Description: Student may contact the instructor or department
for information.

MORT 3030 Funeral Service Law
A-F only, 2 credit(s); prereq 3025;
Instructor: Meslow, Doug
Description: Student may contact the instructor or department
for information.

MORT 3050 Pathology
A-F only, 3 credit(s); prereq General biology course w/ lab;
Instructor: Mathews, Michael Clark
Description: Student may contact the instructor or department
for information.

MORT 3051 Restorative Art
A-F only, 2 credit(s); prereq [3171 or Concurrent registration
is required (or allowed) in 3171], 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 [3171 or Concurrent registration
is required (or allowed) in 3171], Concurrent registration is
required (or allowed) in 3051, mortuary science major;
Instructor: LaCourt, Jody Lynn
Description: Student may contact the instructor or department
for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
MORT 3065 Embalming Chemistry  
A-F only, 3 credit(s); prereq Intro course in general chemistry; 
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.

MORT 3091W Independent Study in Funeral Service  
1-4 credit(s), max credits 4, 3 completions allowed; prereq Mortuary science major; Meets CLE req of Writing Intensive; 
Instructor: LuBrant, Michael P 
Description: Student may contact the instructor or department for information.

MUS 1001 Fundamentals of Music  
3 credit(s); prereq For non-music majors; Meets CLE req of Other Humanities Core; 
Instructor: STAFF 
Description: An introduction to the musical notation and structure of Western music. This course is intended for non-music majors and will cover the following topics: rhythm, pitch, meter, keyboard, major/minor scales, intervals, chords, and harmony. Course work is participatory and includes singing, playing instruments, clapping and aural perception. Grades are determined from assignments, quizzes, a paper and mid-term and final exams. Class time includes two lectures and one lab per week. The syllabus is on the class web. (Note: this class includes four lab sections: 002, 003, 004, and 005.) 
Style: 66% Lecture, 33% Laboratory. 
Grading: 10% mid exam, 15% final exam, 10% reports/papers, 20% quizzes, 20% laboratory evaluation, 25% problem solving. 
Exam Format: Multiple choice and written answer; written and aural examination

Museum Studies  
300 Bell Museum

MUS 1001 Fundamentals of Music  
3 credit(s); prereq For non-music majors; Meets CLE req of Other Humanities Core; 
Instructor: Damschroder, David A 
Description: Perhaps right now you are wondering what you are getting yourself into. Perhaps you assumed that you could complete a music fundamentals course just by reading and memorizing facts. Not in this course! Do not worry if you have never sung in front of anyone before. Try not to feel inhibited when you record your laboratory assignments. If it helps, you might keep in mind that the only person who will hear your singing will be the instructor. And remember, you will not be evaluated for the quality of your voice, but only on whether you can sing the right notes at the right times. Most students who have taken Mus 1001 over the years have performed well in these assignments...and have enjoyed the experience. You should, too! I hope that you will have fun as you record your performances. The course is full of adventures that will develop your talent in music. Work hard, do not allow too much time to lapse between submissions, and above all, enjoy yourself! Music enriches every soul it touches. Hopefully, your growth in Mus 1001 will lead you to a more rewarding relationship with the musical heritage of the world in the years to come. After you have completed this course, you should be able to: --read and write pitch notation in either treble or bass clef in numerous major and minor keys; --read and write music in a variety of meters using a wide range of notes and rests; --name and construct intervals, scales, and chords; --analyze a chord progression using Roman numerals and figured bass, specifying the type of cadence employed; --distinguish the sound of one interval, triad, or scale from another; --perform melodies written in a variety of keys and meters, by both singing and playing the piano; and --perform rhythmic notation accurately. 
Style: This is a printed, correspondence section. 
Grading: See downloadable syllabus for grading information. 
Exam Format: Supervised, in-person (not online) exams.
MUS 1013 Rock I: The Historical Origins and Development of Rock Music to 1970
A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Lubet,Alex J
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid information. As first a youth music and later a cross-generational music with a tinge of youthful rebelliousness, rock music has been an enormously influential and reflective social force. It is thus common in higher education to study rock primarily as sociology, history, English literature, and fashion--seemingly as anything but the music that is its essence. This course is an exception. Rock music is examined here principally as music--by a practicing musician. This by no means implies that rock's powerful social implications will be ignored, only that the potency of its social energy emanates from its uniquely compelling sound. For the purposes of this course, rock music will be construed to include all youth-based and youth-inspired American and American-influenced popular music of the era roughly spanning 1950 to 1970. We include both African-American and European-American styles, as well as styles bearing the influences of other ethnic groups. For more information, see the downloadable syllabus.
Style: 100% Web Based.
Grading: 10% class participation.
Exam Format: Short-answer questions and brief essays

MUS 1014 Rock II: Rock Music from 1970 to the Present
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Mercer-Taylor,Peter J
Description: For non-majors (no prior knowledge of music required or assumed). This course takes up the history of rock around 1970, toward the end of what many consider its Golden Age. From the emergence of "progressive" rock in the early '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 a broader cultural context, as well, and you should come prepared to watch movies, read a couple of short novels, dissect music videos, and surf the Web.
Style: 60% Lecture, 40% Discussion.
Grading: 20% mid exam, 30% final exam, 40% reports/papers, 10% class participation.
Exam Format: Short-answer questions and brief essays

MUS 1015 Music and Movies: The Use and Representation of Music and Musicians in Film in a Global Context
A-F only, 4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: Lubet,Alex J
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid information. Music has been an integral element of film almost since the latter's invention in the late nineteenth century, at which time the technology did not allow for the reproduction of sound and musical accompaniment but was produced live. When film that was capable of recording and reproducing both sound and aural data was introduced in the late 1920s, its potential was first realized in the inclusion of song. Soon the musical accents known technically as "underscoreing", the dialogue, and the effects were added. A musical score, then, might be defined as the songs featured in a film along with the more subtle but equally important underscoreing. Most courses and texts on music and film tend to dwell almost exclusively upon a single genre and a single relationship (e.g., How the underscore can enhance the action, mood, or character portrayal in a particular genre--be it drama, romance, or comedy). It has always been the norm to place limitations on the relationship between music and film. Specialized disciplines have produced numerous masterpieces, and we will not ignore them in this course. However, the relationship between music and film is far more complex than this and begs to be explored more fully. In particular, the depiction of music and musicians on-screen has been enormously common. It has been exceptionally useful in conveying plot, characterization, archetypes, and even in symbolizing entire cultures and "types." For more detailed course information, see the downloadable syllabus.
Style: 100% Web Based.
Grading: 25% final exam, 50% reports/papers, 25% special projects. See downloadable syllabus for complete grading information.

MUS 1021 Introduction to Music
3 credit(s); Credit will not be granted if credit has been received for: MUS 3021; Meets CLE req of Other Humanities Core;
Instructor: Mercer-Taylor,Peter J
Description: This course is intended as an introduction to the process of serious musical listening. Though the historical styles, forms, and cultural foundations of European classical music will form the core of our subject matter and it is exclusively on this material that you will be graded--we will stray repeatedly into popular music traditions in the course of our explorations.
Style: 85% Lecture, 15% Discussion.
Grading: 50% mid exam, 40% final exam, 10% other evaluation.

MUS 1051 Class Piano for Nonmusic Majors I
OPT No Aud, 2 credit(s); Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: A beginning course for non-music majors with little or no keyboard background. Emphasis on basic functional skills, such as reading, harmonizing, playing by ear and improvising, along with basic technique, elementary repertoire, and music theory (written). Taught by graduate assistants in an electronic multi-piano lab. Includes lecture, group and individual performance, and some individual instruction. Outside practice is required. Practice rooms may be rented through the School of Music. Text: "Contemporary Class Piano" Enhanced 6th ed. by Elyse Mach. Mus 1051 covers Units 1-2, including intervals up to a fifth, major scales and key signatures, major and minor 5-finger patterns and triads, and accompaniments using I, IV and V7 chords.
Style: 10% Lecture, 90% Laboratory.
Grading: 20% mid exam, 25% final exam, 40% quizzes, 10% class participation, 5% other evaluation. two written projects
Exam Format: Individual keyboard performance (plus some written theory).

MUS 1052 Class Piano for Nonmusic Majors II
OPT No Aud, 2 credit(s); Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: Continuation of Mus 1051. Emphasis on basic functional skills, such as reading, harmonizing, playing by ear and improvising, along with basic technique, elementary repertoire, and music theory (written). Taught by graduate assistants in an electronic multi-piano lab. Includes lecture, group and individual performance, and some individual instruction. Outside practice is required. Practice rooms may be rented through the School of Music. Text: Contemporary Class Piano, Enhanced 6th edition, by Elyse Mach. 1052 covers Units 3-5, including major and minor scales; intervals up to an octave; accompaniment styles; ABA form; syncopation; secondary chords; pedaling; other scale forms; harmonization with i, iv, and V7 in minor; jazz styles; 2-hand accompaniments; and major and minor 7th chords.
Style: 10% Lecture, 90% Laboratory.
Grading: 20% mid exam, 25% final exam, 5% special projects.
MUS 1552 Piano: Class Lessons II
A-F only, 2 credit(s); prereq instr consent
Instructor: STAFF
Description: Continuation of MUS 1511, a beginning course for freshman music majors or minors with limited keyboard background. Co-requisite for freshman music theory. Taught by graduate assistant in an electronic piano lab. Emphasis is on functional skills, such as reading, transposing, harmonizing, improvising, and playing by ear, along with keyboard theory, technique, and repertoire. Includes lecture, group and individual performance, and some individual instruction. Text: Keyboard Musician by Lyke. 1152 covers chapters 5-8. Students with previous piano background should contact the School of Music for information regarding placement or credit by exam.
Style: 10% Lecture, 90% Laboratory.
Grading: 25% mid exam, 25% final exam, 30% quizzes, 20% class participation.

MUS 1471 Guitar: Class Lessons I
A-F only, 2 credit(s);
Instructor: STAFF
Description: Fundamentals for the beginning guitarist; progressive development of skills. Beginning finger-style technique. Introductory sight-reading skills. Emphasis on performance, practice methods, posture, and sound production. Students must furnish an acoustic guitar, preferably a nylon-string guitar.
Style: 40% Lecture. in-class performance
Grading: 25% mid exam, 25% final exam, 50% class participation.
Exam Format: performance

MUS 1502 Theory and Analysis of Tonal Music II
A-F only, 2 credit(s); prereq [[1501, 1511] with grade of at least C-] or diagnostic test administered by School of Music;
Instructor: Simpson-Litke, Rebecca
Description: Student may contact the instructor or department for information.

MUS 1512 Ear-Training and Sight-Singing II
A-F only, 1 credit(s); prereq [[1501, 1511] with grade of at least C- or diagnostic exam administered by School of Music], [music major or instr consent ];
Instructor: Simpson-Litke, Rebecca
Description: Student may contact the instructor or department for information.

MUS 1804 World Music
3 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: If you love music, this is the course for you. The only prerequisite is curiosity. Whether you have musical training or not, music is an integral part of your life. You are not only surrounded by it, but you use it to define who you are and what you value in life. This is a great opportunity for non-music majors to get introduced to music from a world music perspective. Explore this exciting world and gain a crosscultural understanding of basic musical elements (rhythm, harmony, melody, texture, and timbre). You will be taken on a musical tour around the globe, focusing on a small number of representative cultures. Our goal is to understand how each representative musical case study fits into a larger cultural, social, and political context. What does it mean to be a musician? How do people conceptualize music? How does music relate to a culture’s daily life and understanding of the universe? These are some of the questions we will be addressing. This course will broaden your horizons and sharpen your critical thinking. You will also have some hands-on musical experiences (you will not be evaluated on the basis of your musical ability). Using musical case studies from around the world, we will explore differences in aesthetics that stem from different lifestyles and values. The course objectives will be accomplished through lectures, video viewing, lots of listening, some hands-on musical experience, selected readings, and assigned concert attendance.

MUS 1905 Topics: Freshman Seminar: Bob Dylan
A-F only, 3 credit(s); prereq freshman;
Instructor: Lubet, Alex J
Description: This seminar is an examination of the contributions of Bob Dylan, one of the world’s great artists, mostly to music, but also to literature, film, and the visual arts. Readings are both assigned and student-selected. Class sessions include discussion, listening to music, and viewing videos, concert footage, films and documentaries. Assignments include a Dylan journal with ?weekly sharing? (weekly entries, 2-3 pages) and a final paper with a final-week seminar presentation on a student-chosen, instructor-approved topic (ca. 10 pages). No exams. This is Dr. Lubet’s third Dylan class. His 2007 offering of this seminar was his best-received course ever in 30 years of teaching at the U of M.

MUS 1905 Topics: Freshman Seminar: Striving to be Creative Leader
A-F only, 3 credit(s); prereq freshman;
Instructor: Luckhardt, Jerry M
Description: The topic of leadership has been studied throughout time and over many disciplines. This seminar will explore this interesting subject through the experience of a musician, conductor, administrator, and teacher. Beyond examining theories of leadership, the seminar will explore creativity, communication, and setting the conditions for using leadership in everyday life.
Avant-Garde, a movement that emerged from the Western classical tradition in roughly the years from 1950 to 1970, largely in opposition to that tradition. This music is unusual in both its sound and its relationship to the society that spawned it. Thus, it can only be understood by examining, however succinctly, not only the entirety of "Western classical" music, but much of the music made in the rest of the world as well. No one can truly “appreciate” music without the experiences of performance and composition. Taking as a point of departure the Avant-Garde’s notions that all sounds are potentially musical and that all people are potentially musicians–ideas that are also among my most cherished musical beliefs--you will be asked to create a musical "performance event" that includes at least one of your own original compositions. While you may at first doubt your ability to accomplish this formidable artistic endeavor, let me assure you that, based on my years of experience teaching this course, you can do this and you will enjoy it! You may like it so much that, long after you have completed this course, you may, like several of my students, come to think of yourself as a composer and musician and continue to create and perform works of sonic art. Nothing would please me more. Without further delay, let us embark upon our adventure, examining the music of the near and more distant past and making the music of the present.

Style: 100% Web Based.

Grading: Course Completion Calendar (1%) Seven journal assignments (49%) Final project (50%)

MUS 3230 Chorus
1-2 credit(s), max credits 16, 8 completions allowed; prereq Choral and/or instrumental music background, audition, instr consent ;
Instructor: Culloton, Matthew Richard
Description: Student may contact the instructor or department for information.

MUS 3230 Chorus
1-2 credit(s), max credits 16, 8 completions allowed; prereq Choral and/or instrumental music background, audition, instr consent ;
Instructor: Ji, Hyun Jung
Description: Student may contact the instructor or department for information.

MUS 3261 Italian Diction for Singers
A-F only, 1 credit(s); prereq Voice or choral music major, concurrent enrollment in applied voice;
Instructor: Zaro-Mullins, Wendy
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: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MUS 3340 Jazz Ensemble
A-F only, 1 credit(s), max credits 8, 8 completions 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 completions allowed; prereq Audition, instr consent;
Instructor: Wiberg, Christopher R
Description: Student may contact the instructor or department for information.

MUS 3350 Jazz Combo
A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq Audition, instr consent;
Instructor: STAFF
Description: Jazz combos study a wide range of small group jazz literature. Time is also spent on improvisation and performance practice concepts. Performances are scheduled each semester. Ensembles are open to music majors and non-music majors, and auditions are required. Students are placed according to their ability and experience.
Style: performance/rehearsal

MUS 3380 Gospel Choir
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Moore, Sanford Lajuan
Description: Performance ensemble. Students explore the history of gospel music through experiential/participatory songs. Field songs, songs of struggle. Southern, traditional, and contemporary songs. Although this course does not require auditions, some choral or instrumental experience is helpful. The instructor will teach students 12-16 Gospel songs using sheet music and teaching by rote (A memorizing process using routine or repetition). The instructor will also explore with the students the cultural vocal and rhythmic styles used in authentic African American religious music. The Final of the course will be a concert performance of the course material.

MUS 3400 University and Campus Bands
2 credit(s), max credits 20, 10 completions allowed;
Instructor: Neal, Alicia M
Description: Student may contact the instructor or department for information.

MUS 3401 Basic Conducting
A-F only, 2 credit(s); prereq 1502, music major;
Instructor: Diem, Timothy W
Description: Student may contact the instructor or department for information.

MUS 3410 University Wind Bands
A-F only, 1 credit(s), max credits 14, 14 completions allowed; prereq Audition, instr consent;
Instructor: Luckhardt, Jerry M
Description: A music ensemble of select wind and percussion players. The ensemble includes a number of undergraduate and graduate majors from other disciplines. Symphonic band performs 4 to 5 concerts each academic year. Admission is by audition only.
Style: rehearsal
Grading: rehearsal preparation and performance

MUS 3410 University Wind Bands
A-F only, 1 credit(s), max credits 14, 14 completions 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 completions 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 completions allowed; prereq Non-music major or unable to register for University Orchestra;
Instructor: Specht, Jeffrey Frederick
Description: Student may contact the instructor or department for information.
MUS 3440 Chamber Ensemble
A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq instr consent;
Instructor: STAFF
Description: Chamber ensembles provide an opportunity for music majors to study and perform chamber music (generally works for three or more instruments) with a faculty coach. There is at least one public performance by each group during the semester. Qualified non-music majors may be permitted to register for chamber music with instructor permission following an audition. For information regarding participation in the School of Music chamber music program, please see: http://www.music.umn.edu/enscomp/chamber.php
Style: 100% Laboratory.
Grading: performances

MUS 3490 Athletics Bands
A-F only, 1 credit(s), max credits 16, 16 completions 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 soccer, begin in September. Each band will perform 25 - 30 times throughout the year including regular season and post season events. Auditions are held in early September for formation of the three groups. Year-long participation is required.

MUS 3502 Theory and Analysis of Tonal Music IV
A-F only, 2 credit(s); prereq [3501, 3511] with grade of at least C-; 1 credit(s); prereq Grad student in music or instr consent;
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 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 major to remedy deficiencies (though the course does NOT offer graduate credit).
Style: 25% Lecture, 25% Discussion, 25% Laboratory.
Grading: 30% mid exam, 30% final exam, 15% quizzes, 10% problem solving, 15% other evaluation.
Exam Format: essay

MUS 3519 Review of Ear-Training and Sight-Singing IV
A-F only, 1 credit(s); prereq Grad student in music or instr consent;
Instructor: Billmeyer, Dean 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: Harness, Kelley A
Description: This is the first course in the undergraduate music history sequence. We will study music composed over a very broad time span, ca. 800 to 1700, looking at the works' musical structures within the larger contexts of musical style, social/political significance, and broad aesthetic and philosophical movements. Because this is a writing intensive (WI) course, both formal and informal writing assignments will constitute a significant percentage (one-third) of the grade. In addition to essay questions on exams, students will complete three short assignments which deal with writing issues (e.g., how and when to create footnotes and bibliographies) and two longer papers. The first of the longer papers will deal with issues of performance in early music, while the second will involve analysis of an individual work. Students are required to purchase the following textbooks: Grout, Donald J. 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 [3501, 3511, 3602] with a grade of at least C-, music major or instr consent; Meets CLE req of Writing Intensive;
Instructor: Grayson, David Alan
Description: Student may contact the instructor or department for information.

MUS 4502 18th-Century Counterpoint
A-F only, 3 credit(s); prereq [3501, 3508] or pass basic skills exam;
Instructor: Bribitzer-Stull, Matt
Description: Student may contact the instructor or department for information.

MUS 4503 Theory and Analysis of Tonal Music V
A-F only, 3 credit(s);
Instructor: Simpson-Litke, Rebecca
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. It's principles address how the daily habits in the use of the self (such as sitting, standing, walking, and reaching) affect seemingly disparate problems such as stage fright, musculoskeletal 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 technical ease. The Alexander Technique provides tools to enhance fundamental coordination leading to improved performance. The texts used are: "Indirect Procedures--A Musician's Guide to the Alexander Technique" by Pedro de Alcantara; and "Mind and Muscle" by Elizabeth Langford. Class discussions will center on assigned readings and each student will be responsible for two short papers on selected portions of the texts. Also open to non-musicians.
Style: 10% Lecture, 25% Film/Video, 25% Discussion, 25% Laboratory, 15% Demonstration. Individual work with students 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 J. 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 5230 Chorus
1-2 credit(s), max credits 16, 8 completions allowed; prereq Choral and/or instrumental music background; audition, instr consent;
Instructor: Culliton, Matthew Richard
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
MUS 5230 Chorus
1-2 credit(s), max credits 16, 8 completions allowed; prereq
Choral and/or instrumental music background; audition, instr consent;
Instructor: Ji,Hyun Jung
Description: Student may contact the instructor or department
for information.

MUS 5240 University Singers
A-F only, 1 credit(s), max credits 8, 8 completions allowed;
prereq Audition, instr consent;
Instructor: Romey,Kathy Saltzman
Description: Student may contact the instructor or department
for information.

MUS 5242 Vocal Literature II
A-F only, 3 credit(s); prereq 12 cr in MusA 1104 or MusA
1304, grad music major or instr consent;
Instructor: Zabala,Adriana
Description: Student may contact the instructor or department
for information.

MUS 5250 Opera Workshop and Ensemble
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
prereq audition, instr consent;
Instructor: Walsh,David Allan
Description: The Opera Workshop is designed to provide
performance-oriented opera and music theatre singers with
theoretical and practical instruction in opera stagecraft. The
course will combine theatre games and exercises,
improvisations, script readings, plus rehearsal of selected opera
and music theatre repertoire appropriate to the skill development
of the individual student. The 'non-production' nature of this
course means that the student has the possibility of exploring
and 'trying things out'. This class will be determined on the basis
of audition and will be restricted to juniors and seniors in the
undergraduate programme.
Style: 20% Discussion. Practical instruction in stagecraft
Grading: 20% in-class presentation, 80% class participation.
Exam Format: There are no formal exams. The in-class
participation and the presentation of Improvs, script readings and
scene studies will be the basis for grading the students
accomplishments and progress.

MUS 5272 Diction for Singers II
A-F only, 2 credit(s); prereq 12 cr in MusA 1304 or grad music
major or instr consent;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department
for information.

MUS 5280 Opera Theatre
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
prereq audition, instr consent;
Instructor: Walsh,David Allan
Description: The Opera Theatre programme is designed to
provide performance-oriented opera and music theatre singers with
theoretical and practical instruction in opera stagecraft, as
well as genuine operatic performance experience. Two
fully-staged productions per school year, with all the relevant
staging demands, offer the student performer an opportunity to
showcase her/his talent in a public presentation. Opera Theatre
classes will be determined on the basis of audition.
Style: 20% Discussion. Direct practical staging instruction
Grading: 100% other evaluation. Staging and musical work
Exam Format: Performances of the opera production each semester

MUS 5336 Jazz Arranging
A-F only, 3 credit(s); prereq 3502 or instr consent;
Instructor: Sorensen, Dean Patrick
Description: This course will walk students through the writing
of two arrangements for jazz ensemble. This first will be a small
group arrangement (9 pieces) and the second will be a full big
band chart. Classic scores and recordings will be studied, and all
student projects will be rehearsed and recorded.

MUS 5340 Jazz Ensemble
A-F only, 1 credit(s), max credits 6, 6 completions allowed;
prereq audition, instr consent;
Instructor: Sorensen, Dean Patrick
Description: The University Jazz Ensembles play a wide variety
of big band repertoire and perform for many events, both on and
off campus. Entrance is limited to instruments that are
traditionally a part of the big band: trumpet, trombone, saxophone, piano, guitar, bass, drums, and percussion.
Placement is by audition, and registration is not permitted until
after an audition has taken place.
Style: Rehearsal/performance

MUS 5340 Jazz Ensemble
A-F only, 1 credit(s), max credits 6, 6 completions allowed;
prereq audition, instr consent;
Instructor: Wiberg, Christopher R
Description: Student may contact the instructor or department
for information.

MUS 5380 Gospel Choir
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Moore, Sanford Lajuan
Description: Performance ensemble. Students explore the
history of gospel music through experiential/participatory songs.
Field songs, songs of struggle. Southern, traditional, and
contemporary songs, although this course does not require
auditions, some choral or instrumental experience is helpful. The
instructor will teach students 12-16 Gospel songs using sheet
music and teaching by rote (A memorizing process using routine
or repetition). The instructor will also explore with the students
the cultural vocal and rhythmic styles used in authentic African
American religious music. The Final of the course will be a
concert performance of the course material.

MUS 5410 University Wind Bands
A-F only, 1 credit(s), max credits 14, 14 completions
allowed; prereq audition, instr consent;
Instructor: Luckhardt, Jerry M
Description: A music ensemble of select wind and percussion
players. The ensemble includes a number of undergraduate and
graduate majors from other disciplines. Symphonic band
performs 4 to 5 concerts each academic year. Admission is by
audition only.
Style: rehearsal
Grading: rehearsal preparation and performance

MUS 5410 University Wind Bands
A-F only, 1 credit(s), max credits 14, 14 completions
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 5420 Orchestra
A-F only, 1 credit(s), max credits 8, 8 completions allowed;
prereq audition, instr consent;
Instructor: Smith, Mark Russell
Description: Student may contact the instructor or department
for information.

MUS 5430 Contemporary Music Workshop
A-F only, 1 credit(s), max credits 8, 8 completions allowed;
prereq instr consent;
Instructor: Kawai, Noriko
Description: Student may contact the instructor or department
for information.

MUS 5440 Chamber Ensemble

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq audition, instr consent; Instructor: STAFF
Description: Chamber ensembles provide an opportunity for music majors to study and perform chamber music (generally works for three or more instruments) with a faculty coach. There is at least one public performance by each group during the semester. Qualified non-music majors may be permitted to register for chamber music with instructor permission following an audition. For information regarding participation in the School of Music chamber music program, please see: http://www.music.umn.edu/enscomp/chamber.php
Grading: performance

MUS 5450 Orchestral Repertoire
A-F only, 1-3 credit(s), max credits 9, 3 completions allowed; prereq instr consent;
Instructor: Smith, Mark Russell
Description: Student may contact the instructor or department for information.

MUS 5480 University Brass Choir
1 credit(s), max credits 8, 8 completions allowed; prereq audition, instr consent;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MUS 5485 Transcription for Winds
2 credit(s); prereq 3502 or instr 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), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Meza, Fernando A.
Description: Practice and performance of standard and contemporary compositions for percussion instruments in various combinations.
Style: 20% Lecture, 80% Laboratory.
Grading: 40% in-class presentation, 60% laboratory evaluation.
Exam Format: no exams

MUS 5490 Percussion Ensemble
A-F only, 1 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Rappel, Adam A
Description: Student may contact the instructor or department for information.

MUS 5490 Percussion Ensemble
A-F only, 1 credit(s), max credits 10, 10 completions allowed; prereq instr consent;
Instructor: Sutrisno, Joko
Description: Student may contact the instructor or department for information.

MUS 5541 16th-Century Counterpoint
A-F only, 3 credit(s); prereq [3501, 3508] or pass basic skills exam Credit will not be granted if the student has already completed Mus 4501;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUS 5573 Analysis of Late-Romantic Orchestral Literature
A-F only, 3 credit(s); prereq 3502 or Theory IV Exam or instr consent 3504 or equiv recommended;
Instructor: Bribitzer-Stull, Matt
Description: MUS 5573: Analysis of Late-Romantic Orchestral Literature Matt Bribitzer-Stull 10:10-12:05 M; 10:10-11:00 W 3 credits Prereq: 3502 or equivalent This course is an introduction to advanced tonal analysis. A corpus of Romantic music by Wagner, Strauss, and four Russian composers (Tchaikovsky, Rimsky-Korsakov, Moussorgsky, and Rachmaninov) will serve as a focus for assignments and discussions. Topics including form, orchestration, extra-musical association, and harmony (augmented sixth chords, diminished seventh chords, augmented triads, common-tone chords, the Neapolitan, advanced mixture, chromatic sequences, altered dominants, and chromatic/enharmonic modulation) will comprise the semester's subject matter. Studying these topics will enable us to achieve an enhanced understanding of tonality's beautiful complexity and its relationship to extra-musical considerations.

MUS 5621 Baroque Music and Its Contexts
A-F only, 3 credit(s);
Instructor: Harness, Kelley A
Description: Student may contact the instructor or department for information.

MUS 5647 20th-Century European/American Music
3 credit(s); prereq 3603 or equiv, 5501 or equiv, 12 undergrad cr in music history;
Instructor: Painter, Ph.D. Karen
Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Music in Inclusive Learning Communities
3 credit(s), max credits 15, 15 completions allowed;
Instructor: Lubei, Alex J
Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Suzuki Violin Pedagogy Seminar
2 credit(s), max credits 15, 15 completions allowed;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Career Resources and Studio Administration
2 credit(s), max credits 15, 15 completions allowed;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music
3 credit(s), max credits 15, 15 completions allowed;
Instructor: Currie, Scott
Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Music on the Silk Road
3 credit(s), max credits 15, 15 completions allowed;
Instructor: Ilnitchi Currie, Gabriela
Description: Student may contact the instructor or department for information.

MUS 5950 Topics in Music: Chamber Music Literature
2 credit(s), max credits 15, 15 completions allowed;
Instructor: Kawai, Noriko
Description: Student may contact the instructor or department for information.

MUS 8170 Advanced Vocal Accompanying Skills and Repertoire
A-F only, 2 credit(s), max credits 8, 4 completions allowed; prereq [French, German, Italian, diction], accompanying or
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 8299</td>
<td>Performance in Choral Conducting</td>
<td>A-F only, 3 credit(s); prerequisite instructor consent; Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUS 8450</td>
<td>Graduate Seminar in Conducting</td>
<td>A-F only, 3-4 credit(s), max credits 32, 8 completions allowed; prerequisite Graduate student in conducting or instructor consent; Instructor: Kirchhoff, Craig J</td>
</tr>
<tr>
<td>MUS 8590</td>
<td>Topics in Tonal Analysis</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Schultz, Anna Christine</td>
</tr>
<tr>
<td>MUS 8640</td>
<td>Seminar in Musicology</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Damschroder, David A</td>
</tr>
<tr>
<td>MUS 8550</td>
<td>Composition</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Lubet, Alex J</td>
</tr>
<tr>
<td>MUS 8560</td>
<td>Readings in Music Theory</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Mazzola PhD, Guerino</td>
</tr>
<tr>
<td>MUS 8580</td>
<td>Topics in 20th-Century Analysis</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Simpson-Like, Rebecca</td>
</tr>
<tr>
<td>MUS 8640</td>
<td>Seminar in Musicology</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Schultz, Anna Christine</td>
</tr>
<tr>
<td>MUS 8479</td>
<td>Performance and Document: Wind Ensemble/Band</td>
<td>A-F only, 2 credit(s); prerequisite 8472, instructor consent; Instructor: Kirchhoff, Craig J</td>
</tr>
<tr>
<td>MUS 8450</td>
<td>Graduate Seminar in Conducting</td>
<td>A-F only, 3-4 credit(s), max credits 32, 8 completions allowed; prerequisite Graduate student in conducting or instructor consent; Instructor: Smith, Mark Russell</td>
</tr>
<tr>
<td>MUS 8550</td>
<td>Composition</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Lubet, Alex J</td>
</tr>
<tr>
<td>MUS 8560</td>
<td>Readings in Music Theory</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Mazzola PhD, Guerino</td>
</tr>
<tr>
<td>MUS 8450</td>
<td>Graduate Seminar in Conducting</td>
<td>A-F only, 3-4 credit(s), max credits 32, 8 completions allowed; prerequisite Graduate student in conducting or instructor consent; Instructor: Kirchhoff, Craig J</td>
</tr>
<tr>
<td>MUS 8550</td>
<td>Composition</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Lubet, Alex J</td>
</tr>
<tr>
<td>MUS 8560</td>
<td>Readings in Music Theory</td>
<td>A-F only, 3 credit(s), max credits 12, 4 completions allowed; prerequisite instructor consent; Instructor: Mazzola PhD, Guerino</td>
</tr>
</tbody>
</table>

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
MUSA 1101 Piano: Elective  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent;  
Instructor: STAFF  
Description: Individual piano instruction by graduate piano TAs for non-music majors with prior piano study. Weekly 30-minute or 60-minute lessons are arranged individually with the instructor, along with a short jury exam at the end of the semester. Requires permission by the Class Piano Coordinator or a piano TA. Information on applied music fees and how to obtain permission to register may be obtained from the School of Music Office, Room 100 Ferguson Hall, (612) 624-5740, or at http://www.music.umn.edu/students/Piano%20Ap%201101_3101_5101.pdf  
Style: individual lessons  
Grading: 40% final exam, 60% other evaluation. weekly lesson preparation  
Exam Format: individual keyboard performance (jury)

MUSA 1102 Harpsichord: Elective  
A-F only, 2-4 credit(s), max credits 32, 8 completions 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, 2-4 credit(s), max credits 32, 8 completions 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, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent;  
Instructor: Zaro-Mullins, Wendy  
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective  
A-F only, 2-4 credit(s), max credits 32, 8 completions 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, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent;  
Instructor: Renbarger, Cory James  
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent;  
Instructor: Feldkamp, Betsie Claer  
Description: Student may contact the instructor or department for information.

MUSA 1104 Voice: Elective  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent;  
Instructor: Skovira, Katherine Anne  
Description: Student may contact the instructor or department for information.

MUSA 1105 Violin: Elective  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq Departmental Consent Required;  
Instructor: Kim, Young-Nam  
Description: Student may contact the instructor or department for information.

MUSA 1123 Guitar: Elective  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent;  
Instructor: Hodges, Ian Jeffrey  
Description: Student may contact the instructor or department for information.

MUSA 1123 Guitar: Elective  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed; prereq dept consent;  
Instructor: Mendoza-Santiago, Eduardo  
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 completions 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 completions allowed; prereq Audition, dept consent;  
Instructor: Artymiw, Lydia  
Description: Student may contact the instructor or department for information.

MUSA 1301 Piano--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;  
Instructor: Shockley, Rebecca P  
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 completions allowed; prereq Audition, dept consent;  
Instructor: Braginsky, Alexander  
Description: Student may contact the instructor or department for information.

MUSA 1302 Harpsichord--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;  
Instructor: Billmeyer, Dean W  
Description: Student may contact the instructor or department for information.

MUSA 1303 Organ--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;  
Instructor: Billmeyer, Dean W  
Description: Student may contact the instructor or department for information.

MUSA 1304 Voice--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
MUSA 1304 Voice--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Bjork,Mark P  
Description: Student may contact the instructor or department for information.

MUSA 1305 Viola--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
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 completions  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Bogorad,Julia A  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Kierig,Barbara G  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Remenikova,Tanya  
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 completions  
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 completions  
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 completions  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Miller Jr,John W  
Description: Student may contact the instructor or department for information.

MUSA 1315 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Del Santo,John  
Description: Student may contact the instructor or department for information.

MUSA 1316 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: O'Reilly,Sally P  
Description: Student may contact the instructor or department for information.

MUSA 1317 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: De Haan,John  
Description: Student may contact the instructor or department for information.

MUSA 1318 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Zawisza,Philip David  
Description: Student may contact the instructor or department for information.

MUSA 1319 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Bogorad,Julia A  
Description: Student may contact the instructor or department for information.

MUSA 1320 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: O'Reilly,Sally P  
Description: Student may contact the instructor or department for information.

MUSA 1321 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Davis,Immanuel  
Description: Student may contact the instructor or department for information.

MUSA 1322 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Bogorad,Julia A  
Description: Student may contact the instructor or department for information.

MUSA 1323 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Zawisza,Philip David  
Description: Student may contact the instructor or department for information.

MUSA 1324 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Bogorad,Julia A  
Description: Student may contact the instructor or department for information.

MUSA 1325 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Kierig,Barbara G  
Description: Student may contact the instructor or department for information.

MUSA 1326 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Konkol,Korey Bernard  
Description: Student may contact the instructor or department for information.

MUSA 1327 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Turner,Thomas  
Description: Student may contact the instructor or department for information.

MUSA 1328 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Bogorad,Julia A  
Description: Student may contact the instructor or department for information.

MUSA 1329 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Remenikova,Tanya  
Description: Student may contact the instructor or department for information.

MUSA 1330 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Brown,Christopher Craig  
Description: Student may contact the instructor or department for information.

MUSA 1331 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Meffert-Nelson,Karrin Diane  
Description: Student may contact the instructor or department for information.

MUSA 1332 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Snow,John D  
Description: Student may contact the instructor or department for information.

MUSA 1333 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Zaroo-Mullins,Wendy  
Description: Student may contact the instructor or department for information.

MUSA 1334 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Kierig,Barbara G  
Description: Student may contact the instructor or department for information.

MUSA 1335 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: De Haan,John  
Description: Student may contact the instructor or department for information.

MUSA 1336 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Zawisza,Philip David  
Description: Student may contact the instructor or department for information.

MUSA 1337 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Bogorad,Julia A  
Description: Student may contact the instructor or department for information.

MUSA 1338 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Kierig,Barbara G  
Description: Student may contact the instructor or department for information.

MUSA 1339 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: De Haan,John  
Description: Student may contact the instructor or department for information.

MUSA 1340 Recital--Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, department consent;  
Instructor: Zawisza,Philip David  
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 completions 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 completions 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 completions allowed; prereq Audition, dept consent;
Instructor: Lenzen, Caroline May
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 completions allowed; prereq Audition, dept consent;
Instructor: Lenzen, Caroline May
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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq Audition, dept consent;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MUSA 1401 Piano--Secondary
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Music major, dept consent;
Instructor: STAFF
Description: Individual piano instruction by graduate piano TAs for music majors who have completed Class Piano Mus 1151-1152 or equivalent proficiency. Weekly 30-minute or 60-minute lessons are arranged individually with the instructor, along with a short jury exam at the end of the semester. Information on applied music fees and how to register may be obtained from the School of Music Office, Room 100 Ferguson Hall, or at http://www.music.umn.edu/students/Piano%20Ap%201401%203401%205401.pdf
Style: individual lessons
Grading: 40% final exam, 60% other evaluation. weekly lesson preparation
Exam Format: individual keyboard performance (jury)

MUSA 1402 Harpsichord—Secondary
A-F only, 2-4 credit(s), max credits 16, 8 completions 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 completions 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 completions allowed; prereq Audition, dept consent;
Instructor: Zaro-Mullins, Wendy
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 completions 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 completions allowed; prereq Audition, dept consent;
Instructor: Renbarger, Cory James
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 completions allowed; prereq Audition, dept consent;
Instructor: Feldkamp, Betsie Claer
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 completions allowed; prereq Audition, dept consent;
Instructor: Skovira, Katherine Anne
Description: Student may contact the instructor or department for information.

MUSA 1405 Violin—Secondary
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Kim, Young-Nam
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 completions allowed; prereq Audition, dept consent;
Instructor: Hedegard, Daniel
Description: Student may contact the instructor or department for information.

MUSA 1403 Guitar—Secondary
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Hodges, Ian Jeffrey
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 completions allowed; prereq Audition, dept consent;
Instructor: Mendoza-Santiago, Eduardo
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 completion 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 completion allowed; prereq Audition, dept consent;
Instructor: Artymiw, 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 completion allowed; prereq Audition, dept consent;
Instructor: Shockley, Rebecca P
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 completion 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 completion 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 completion 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 completion 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 completion allowed; prereq Audition, dept consent;
Instructor: Artymiw, Lydia
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 completion allowed; prereq Audition, dept consent;
Instructor: Shaw, Paul Magnus
Description: Student may contact the instructor or department for information.

Exam Format: individual keyboard performance (jury)

Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
MUSA 1904 Voice--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: De Haan, John
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 completion allowed;
prereq Audition, dept consent;
Instructor: Zawisza, Philip David
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 completion allowed;
prereq Audition, dept consent;
Instructor: Kim, Young-Nam
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 completion allowed;
prereq Audition, dept consent;
Instructor: Konkol, Korey Bernard
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 completion allowed;
prereq Audition, dept consent;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MUSA 1908 Double Bass--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion 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 completion allowed;
prereq Audition, dept consent;
Instructor: Zabala, Adriana
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 completion allowed;
prereq Audition, dept consent;
Instructor: O'Reilly, Sally P
Description: Student may contact the instructor or department for information.

MUSA 1910 Oboe--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Hara, Burt T
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 completion allowed;
prereq Audition, dept consent;
Instructor: Reeves, Basil
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 completion allowed;
prereq Audition, dept consent;
Instructor: Meffert-Nelson, Karrin Diane
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 completion allowed;
prereq Audition, dept consent;
Instructor: Hara, 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 completion allowed;
prereq Audition, dept consent;
Instructor: Snow, John D
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 completion allowed;
prereq Audition, dept consent;
Instructor: Miller Jr, John W
Description: Student may contact the instructor or department for information.

MUSA 1914 Bassoon--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Niulewowski, 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 completion 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 completion allowed;
prereq Audition, dept consent;
Instructor: Lemen, Caroline
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 completion allowed;
prereq Audition, dept consent;
Instructor: Gast, Michael
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 completion allowed;
prereq Audition, dept consent;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MUSA 1917 Trombone--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion 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 completion 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 completion 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 completion allowed;
prereq Audition, dept consent;
Instructor: Campbell, Steven C
Description: Student may contact the instructor or department for information.

MUSA 1921 Percussion--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.

MUSA 1921 Percussion--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Meza, Fernando A.
Description: Student may contact the instructor or department for information.

MUSA 1921 Percussion--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
prereq Audition, dept consent;
Instructor: Kogan, Peter
Description: Student may contact the instructor or department for information.

MUSA 1922 Harp--Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion 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 completion 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 completions 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 completions allowed;
prereq Audition, dept consent;
Instructor: Arnymiw, 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 completions allowed;
prereq Audition, dept consent;
Instructor: Arnymiw, Lydia
Description: Student may contact the instructor or department for information.
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent; Instructor: Braginaev, Alexander
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 completions 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 completions 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 completions 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
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent; Instructor: Kierig, Barbara G
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 completions 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 completions allowed; prereq Audition, dept consent; Instructor: De Haan, John
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 completions allowed; prereq Audition, dept consent; Instructor: Zawisza, Philip David
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 completions allowed; prereq Audition, dept consent; Instructor: Zawisza, Phillip David
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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq Audition, dept consent; Instructor: Brown, Christopher Craig
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 completions allowed; prereq Audition, dept consent; Instructor: Bogorad, Julia A
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 completions allowed; prereq Audition, dept consent; Instructor: Davis, Immanuel
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 completions 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 completions 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 completions allowed; prereq Audition, dept consent; Instructor: Melfert-Nelson, Karrin Diane
Description: Student may contact the instructor or department for information.

MUSA 2312 Clarinet-Performance Major
A-F only, 2-4 credit(s), max credits 16, 8 completions 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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Wyant, 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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 2316 Trumpet-Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 2315 French Horn-Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Ullery, Charles G  
Description: Student may contact the instructor or department for information.

MUSA 2315 French Horn-Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Lemen, Caroline May  
Description: Student may contact the instructor or department for information.

MUSA 2316 Trumpet-Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Baldwin, David B  
Description: Student may contact the instructor or department for information.

MUSA 2317 Trombone-Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 2317 Trombone-Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 2318 Euphonium—Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 2319 Tuba-Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 2319 Tuba-Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 2321 Percussion—Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Hey, Philip C  
Description: Student may contact the instructor or department for information.

MUSA 2321 Percussion—Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Meza, Fernando A.  
Description: Student may contact the instructor or department for information.

MUSA 2321 Percussion—Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Yeager, Steven Michael  
Description: Student may contact the instructor or department for information.

MUSA 2321 Percussion—Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Kogan, Peter  
Description: Student may contact the instructor or department for information.

MUSA 2322 Harp-Performance Major  
A-F only, 2-4 credit(s), max credits 16, 8 completions  
allowed; prereq Audition, dept consent;  
Instructor: Ashworth, Thomas Jackson  
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 2323</td>
<td>Guitar-Performance Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent; Instructor: Fiegel, James F</td>
</tr>
<tr>
<td>MUSA 2323</td>
<td>Guitar-Performance Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent; Instructor: Van, Jeffrey Wylie</td>
</tr>
<tr>
<td>MUSA 3101</td>
<td>Piano: Elective</td>
<td>A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent; Instructor: STAFF</td>
</tr>
<tr>
<td>MUSA 3102</td>
<td>Harpsichord: Elective</td>
<td>A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent; Instructor: Billmeyer, Dean W</td>
</tr>
<tr>
<td>MUSA 3103</td>
<td>Organ: Elective</td>
<td>A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent; Instructor: Billmeyer, Dean W</td>
</tr>
<tr>
<td>MUSA 3104</td>
<td>Voice: Elective</td>
<td>A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent; Instructor: Zaro-Mullins, Wendy</td>
</tr>
<tr>
<td>MUSA 3104</td>
<td>Voice: Elective</td>
<td>A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent; Instructor: Ten Brink, Jonathan Marshall</td>
</tr>
<tr>
<td>MUSA 3104</td>
<td>Voice: Elective</td>
<td>A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent; Instructor: Renbarger, Cory James</td>
</tr>
<tr>
<td>MUSA 3301</td>
<td>Harpsichord--Major</td>
<td>A-F only, 2-4 credit(s), max credits 16, 4 completions allowed; prereq dept consent; Instructor: Billmeyer, Dean W</td>
</tr>
</tbody>
</table>

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
MUSA 3303 Organ--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Zaro-Mullins, Wendy
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MUSA 3304 Voice--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MUSA 3305 Violin--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MUSA 3305 Violin--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: O'Reilly, Sally P
Description: Student may contact the instructor or department for information.

MUSA 3305 Violin--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MUSA 3306 Viola--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Konkol, Kory Bernard
Description: Student may contact the instructor or department for information.

MUSA 3306 Viola--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Turn, Thomas
Description: Student may contact the instructor or department for information.

MUSA 3307 Cello--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MUSA 3308 Double Bass--Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed; prereq Audition, dept consent;
Instructor: Bogorad, Julia A
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 completions allowed; prereq Audition, dept consent;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MUSA 3311 Oboe--Major
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;
Instructor: Brown, Christopher Craig
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 completions 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 completions allowed; prereq Audition, dept consent;
Instructor: Meffert-Nelson, Karrin Diane
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 completions 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 completions allowed; prereq Audition, dept consent;
Instructor: Wyatt, Angela J.
Description: Student may contact the instructor or department for information.

MUSA 3313 Saxophone--Major
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;
MUSA 3314 Bassoon--Major  
A-F only, 2-4 credit(s), max credits 24, 12 completions  
allowed; prereq Audition, dept consent;  
Instructor: Miller Jr, John W  
Description: Student may contact the instructor or department for information.

MUSA 3314 Bassoon--Major  
A-F only, 2-4 credit(s), max credits 24, 12 completions  
allowed; prereq Audition, dept consent;  
Instructor: Niembowski, Norbert John  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Lemen, Caroline May  
Description: Student may contact the instructor or department for information.

MUSA 3315 French Horn--Major  
A-F only, 2-4 credit(s), max credits 24, 12 completions  
allowed; prereq Audition, dept consent;  
Instructor: Gast, Michael C  
Description: Student may contact the instructor or department for information.

MUSA 3316 Trumpet--Major  
A-F only, 2-4 credit(s), max credits 24, 12 completions  
allowed; prereq Audition, dept consent;  
Instructor: Baldwin, David B  
Description: Student may contact the instructor or department for information.

MUSA 3316 Trumpet--Major  
A-F only, 2-4 credit(s), max credits 24, 12 completions  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 3317 Trombone--Major  
A-F only, 2-4 credit(s), max credits 24, 12 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 3319 Tubà--Major  
A-F only, 2-4 credit(s), max credits 24, 12 completions  
allowed; prereq Audition, dept consent;  
Instructor: Tranter, John Harrington  
Description: Student may contact the instructor or department for information.

MUSA 3319 Tubà--Major  
A-F only, 2-4 credit(s), max credits 24, 12 completions  
allowed; prereq Audition, dept consent;  
Instructor: Werden, David Ray  
Description: Student may contact the instructor or department for information.

MUSA 3319 Tubà--Major  
A-F only, 2-4 credit(s), max credits 24, 12 completions  
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 completions  
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 completions  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Werden, David Ray  
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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Kienzie, 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 completions  
allowed; prereq Audition, dept consent;  
Instructor: Fliegel, James F  
Description: Student may contact the instructor or department for information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Level</th>
<th>Credits</th>
<th>Maximum Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 5104</td>
<td>Voice: Elective</td>
<td>A-F only</td>
<td>2 credit(s)</td>
<td>max 8 completions</td>
<td>Prereq dept consent; Instructor: Zawisza, Philip David</td>
</tr>
<tr>
<td>MUSA 5105</td>
<td>Violin: Elective</td>
<td>A-F only</td>
<td>2 credit(s)</td>
<td>max 8 completions</td>
<td>Prereq dept consent; Instructor: O'Reilly, Sally P</td>
</tr>
<tr>
<td>MUSA 5106</td>
<td>Viola: Elective</td>
<td>A-F only</td>
<td>2 credit(s)</td>
<td>max 8 completions</td>
<td>Prereq dept consent; Instructor: Remenikova, Tanya</td>
</tr>
<tr>
<td>MUSA 5107</td>
<td>Cello: Elective</td>
<td>A-F only</td>
<td>2 credit(s)</td>
<td>max 8 completions</td>
<td>Prereq dept consent; Instructor: Brown, Christopher Craig</td>
</tr>
<tr>
<td>MUSA 5108</td>
<td>Double Bass: Elective</td>
<td>A-F only</td>
<td>2 credit(s)</td>
<td>max 8 completions</td>
<td>Prereq dept consent; Instructor: Davis, Immanuel</td>
</tr>
<tr>
<td>MUSA 5109</td>
<td>Flute: Elective</td>
<td>A-F only</td>
<td>2 credit(s)</td>
<td>max 8 completions</td>
<td>Prereq dept consent; Instructor: Bogorad, Julia A</td>
</tr>
<tr>
<td>MUSA 5111</td>
<td>Oboe: Elective</td>
<td>A-F only</td>
<td>2 credit(s)</td>
<td>max 8 completions</td>
<td>Prereq dept consent;</td>
</tr>
</tbody>
</table>

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
A-F only, 2 credit(s), max credits 8, 4 completions 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 completions allowed; prereq dept consent; Instructor: Snow, John D Description: Student may contact the instructor or department for information.

MUSA 5112 Clarinet: Elective
A-F only, 2 credit(s), max credits 8, 4 completions allowed; prereq dept consent; Instructor: Hara, Burt T Description: Student may contact the instructor or department for information.

MUSA 5113 Saxophone: Elective
A-F only, 2 credit(s), max credits 8, 4 completions allowed; prereq dept consent; Instructor: Wyatt, Angela J. Description: Student may contact the instructor or department for information.

MUSA 5114 Bassoon: Elective
A-F only, 2 credit(s), max credits 8, 4 completions allowed; prereq dept consent; Instructor: Hara, Burt T Description: Student may contact the instructor or department for information.

MUSA 5115 French Horn: Elective
A-F only, 2 credit(s), max credits 8, 4 completions allowed; prereq dept consent; Instructor: Snow, John D Description: Student may contact the instructor or department for information.

MUSA 5116 Trumpet: Elective
A-F only, 2 credit(s), max credits 8, 4 completions allowed; prereq dept consent; Instructor: Baldwin, David B Description: Student may contact the instructor or department for information.

MUSA 5117 Trombone: Elective
A-F only, 2 credit(s), max credits 8, 4 completions allowed; prereq dept consent; Instructor: Tranter, John Harrington Description: Student may contact the instructor or department for information.

MUSA 5118 Euphonium: Elective
A-F only, 2 credit(s), max credits 8, 4 completions 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 completions allowed; prereq dept consent; Instructor: Campbell, Steven C Description: Student may contact the instructor or department for information.

MUSA 5121 Percussion: Elective
A-F only, 2 credit(s), max credits 8, 4 completions 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 completions allowed; prereq dept consent; Instructor: Fliegel, 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 completions allowed; prereq Audition, dept consent; Instructor: Staff Description: Individual piano instruction for graduate music majors who are not piano performance majors. Weekly 30-minute or 60-minute lessons are arranged individually with the instructor, along with a short jury exam at the end of the semester. Information on applied music fees and how to register may be obtained from the School of Music Office, Room 100 Ferguson Hall, or at http://www.music.umn.edu/students/Piano%20Ap%202014%203041%205041%20541%205401%20%20 . Style: Individual lessons Grading: 40% final exam, 60% other evaluation. Weekly lesson preparation Exam Format: (Jury) Individual keyboard performance

MUSA 5402 Harpsichord--Secondary
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed; prereq Audition, dept consent;
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 5403</td>
<td>Organ--Secondary</td>
<td>Billmeyer, Dean W</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Del Santo, Jean Marie</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>O'Reilly, Sally P</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Kim, Young-Nam</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Zabala, Adriana</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Wyman, Angela J.</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>De Haan, John</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Meffert-Nelson, Karrin Diane</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Turner, Thomas</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Remenikova, Tanya</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Bogorad, Julia A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Snow, John D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Davis, Immanuel</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Brown, Christopher Craig</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Bogorad, Julia A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5403</td>
<td>Organ--Secondary</td>
<td>Billmeyer, Dean W</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Del Santo, Jean Marie</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>O'Reilly, Sally P</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Kim, Young-Nam</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Zabala, Adriana</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Wyman, Angela J.</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>De Haan, John</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Meffert-Nelson, Karrin Diane</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Turner, Thomas</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Remenikova, Tanya</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Bogorad, Julia A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Snow, John D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Davis, Immanuel</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Brown, Christopher Craig</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Bogorad, Julia A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5403</td>
<td>Organ--Secondary</td>
<td>Billmeyer, Dean W</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Del Santo, Jean Marie</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>O'Reilly, Sally P</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Kim, Young-Nam</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Zabala, Adriana</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Wyman, Angela J.</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>De Haan, John</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Meffert-Nelson, Karrin Diane</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Turner, Thomas</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Remenikova, Tanya</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Bogorad, Julia A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Snow, John D</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Davis, Immanuel</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Brown, Christopher Craig</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Bogorad, Julia A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5403</td>
<td>Organ--Secondary</td>
<td>Billmeyer, Dean W</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Del Santo, Jean Marie</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>O'Reilly, Sally P</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Kim, Young-Nam</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Zabala, Adriana</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Wyman, Angela J.</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>De Haan, John</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Meffert-Nelson, Karrin Diane</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Turner, Thomas</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Remenikova, Tanya</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>MUSA 5404</td>
<td>Voice--Secondary</td>
<td>Bogorad, Julia A</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>A-F Only</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------</td>
<td>---------</td>
<td>----------</td>
</tr>
<tr>
<td>MUSA 5413</td>
<td>Saxophone--Secondary</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 5414</td>
<td>Bassoon--Secondary</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 5415</td>
<td>French Horn--Secondary</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 5416</td>
<td>Trumpet--Secondary</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 5417</td>
<td>Trombone--Secondary</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 5418</td>
<td>Baritone--Secondary</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 5419</td>
<td>Tuba--Secondary</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 8301</td>
<td>Piano--Major</td>
<td>4-8</td>
<td></td>
</tr>
</tbody>
</table>

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Instructor</th>
<th>Prerequisites</th>
<th>Credit Options</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 8302</td>
<td>Harpsichord--Major A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>O'Reilly, Sally P</td>
<td>Audition, dept consent; A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 8303</td>
<td>Organ--Major A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>Kim, Young-Nam</td>
<td>Audition, dept consent; A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 8304</td>
<td>Voice--Major A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>Zabala, Adriana</td>
<td>Audition, dept consent; A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 8305</td>
<td>Violin--Major A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>Bogorad, Julia A</td>
<td>Audition, dept consent; A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 8307</td>
<td>Cello--Major A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>Meffert-Nelson, Karrin Diane</td>
<td>Audition, dept consent; A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 8308</td>
<td>Double Bass--Major A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>Reeves, Basil</td>
<td>Audition, dept consent; A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 8311</td>
<td>Oboe--Major A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>Snow, John D</td>
<td>Audition, dept consent; A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 8312</td>
<td>Clarinet--Major A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>Melfert-Nelson, Karrin Diane</td>
<td>Audition, dept consent; A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>2-4</td>
<td></td>
</tr>
<tr>
<td>MUSA 8312</td>
<td>Clarinet--Major A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>Hara, Burt T</td>
<td>Audition, dept consent; A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;</td>
<td>2-4</td>
<td></td>
</tr>
</tbody>
</table>
MUSA 8313 Saxophone--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Ashworth,Thomas Jackson
Description: Student may contact the instructor or department for information.

MUSA 8313 Saxophone--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Wyatt,Angelia J
Description: Student may contact the instructor or department for information.

MUSA 8314 Bassoon--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Miller Jr,John W
Description: Student may contact the instructor or department for information.

MUSA 8314 Bassoon--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Nielubowski,Norbert John
Description: Student may contact the instructor or department for information.

MUSA 8314 Bassoon--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Ullery,Charles G
Description: Student may contact the instructor or department for information.

MUSA 8315 French Horn--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Lemen,Caroline May
Description: Student may contact the instructor or department for information.

MUSA 8315 French Horn--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Gast,Michael C
Description: Student may contact the instructor or department for information.

MUSA 8316 Trumpet--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Hey,Philip C
Description: Student may contact the instructor or department for information.

MUSA 8316 Trumpet--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Bordner,Gary Alan
Description: Student may contact the instructor or department for information.

MUSA 8317 Trombone--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Tranter,John Harrington
Description: Student may contact the instructor or department for information.

MUSA 8317 Trombone--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Ashworth,Thomas Jackson
Description: Student may contact the instructor or department for information.

MUSA 8318 Euphonium--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Tranter,John Harrington
Description: Student may contact the instructor or department for information.

MUSA 8318 Euphonium--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions 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 completions allowed; prereq Audition, dept consent;
Instructor: Tranter,John Harrington
Description: Student may contact the instructor or department for information.

MUSA 8319 Tuba--Major
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed; prereq Audition, dept consent;
Instructor: Meza,Fernando A.
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 completions 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 completions allowed; prereq Audition, dept consent;
Instructor: Yeager,Steven Michael
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 completions 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 completions allowed; prereq Audition, dept consent;
Welcome to MUED 3301, a course designed to give you an opportunity to discuss the challenges and triumphs of learning to teach in elementary general music. My colleagues and I would like this to be a wonderful experience in the real world of teaching. We will sing, play instruments, sight read, and conduct music from cultures in today's world. I therefore encourage active participation and the voices of everyone in a safe and nurturing learning environment.

MUED 3416 Choral Conducting and Methods II
A-F only, 4 credit(s); prereq 3415 with grade of at least C-, MUS 3502, MUS 3512, [music education major or instr consent ];
Instructor: Hamann, Keilha Lucas
Description: Student may contact the instructor or department for information.

MUED 3517 Beginning Instrumental Methods and Materials
A-F only, 4 credit(s); prereq 3516, MUS 3502, MUS 3512 music education major, dept consent ;
Instructor: Sneed, Todd
Description: Student may contact the instructor or department for information.

MUED 3519 Advanced Conducting and Repertoire
(Instrumental)
A-F only, 2 credit(s); prereq 3517, MUS 3502, MUS 3512, music education major, dept consent ;
Instructor: Sneed, Todd
Description: Student may contact the instructor or department for information.

MUED 3803 Guitar II for Music Education and Music Therapy Majors: Developing Group Songleading Skills
A-F only, 2 credit(s); prereq 3802 with grade of at least C-, [music therapy or music education major], dept consent ;
Instructor: Schwartzberg, Edward Todd
Description: Student may contact the instructor or department for information.

MUED 5011 Music in the Elementary Classroom Curriculum
2-3 credit(s), max credits 3, 1 completion allowed; prereq Elem Ed major or dept consent ;
Instructor: STAFF
Description: This course is designed to prepare pre-service teachers with materials and strategies to plan and integrate multi-cultural music instruction for elementary school children. Students will need a tuning fork = A, soprano recorder with Baroque-English fingering and one blank VHS videotape.
Style: 20% Lecture, 40% Discussion, 40% Laboratory.
Grading: 5% final exam, 20% quizzes, 40% in-class presentation, 15% class participation, 20% problem solving.
Exam Format: Essay

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
know sooner than later.

MUED 5450 Student Teaching in Vocal Music
A-F only, 4-8 credit(s), max credits 8, 1 completion allowed; 
prereq Music ed major, instr consent Credit will not be granted if the student has already completed MuEd 3450; 
Instructor: Hamann, Keitha Lucas 
Description: Student may contact the instructor or department for information.

MUED 5550 Student Teaching in Instrumental Music
A-F only, 4-8 credit(s), max credits 8, 1 completion allowed; 
prereq Music ed major, instr consent Credit will not be granted if the student has already completed MuEd 3550; 
Instructor: Snead, Todd 
Description: Student may contact the instructor or department for information.

MUED 5650 Student Teaching Seminar
A-F only, 2 credit(s); prereq At least C- in all required [music, music education, professional education] courses Credit will not be granted if the student has already completed MuEd 3650; 
Instructor: Addo, PhD, Akosua O 
Description: Hello! This seminar is designed to provide for all student teachers in music education the opportunity to discuss with the challenges and triumphs of learning to teach in a safe and nurturing learning environment. The seminar addresses topics that are critical to making the transition to the world of public school teaching. Attendance at seminars is required. Your assignments include: weekly reflections, participation in online discussions, an electronic teaching portfolio (components listed below), and participation in mock interviews.

MUED 5750 Topics in Music Education: Music in Inclusive Learning Communities
A-F only, 3 credit(s), max credits 16, 4 completions allowed; 
prereq Grad student in [music education/therapy or education] or instr consent; 
Instructor: Lubet, Alex J 
Description: Student may contact the instructor or department for information.

MUED 5800 Group Music Leadership Skills
A-F only, 3 credit(s); prereq [[Completion of [MUS 1151, MUS 1152] or MUS 1155], music therapy major] or instr consent Credit will not be granted if the student has already completed MuEd 3800; 
Instructor: Schwartzberg, Edward Todd 
Description: Student may contact the instructor or department for information.

MUED 5805 Music Therapy Methods and Procedures II
A-F only, 4 credit(s); prereq 5804 or instr consent Credit will not be granted if the student has already completed MuEd 3805; 
Instructor: Silverman, Michael J 
Description: Student may contact the instructor or department for information.

MUED 5806 Career Preparation
A-F only, 3 credit(s); prereq 5805 or instr consent Credit will not be granted if the student has already completed MuEd 3806; 
Instructor: Silverman, Michael J 
Description: Student may contact the instructor or department for information.

MUED 5808 Medical Music Therapy
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed; 
prereq Grad music therapy major or instr consent; 
Instructor: Silverman, Michael J 
Description: Student may contact the instructor or department for information.

MUED 5855 Music Therapy Internship
S-N only, 0-13 credit(s), max credits 13, 1 completion allowed; 
prereq Music therapy major, instr consent Credit will not be granted if the student has already completed MuEd 3855; 
Instructor: Silverman, Michael J 
Description: Student may contact the instructor or department for information.

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

MUED 8280 Seminar: Current Trends in Music Education
A-F only, 3 credit(s), max credits 30, 10 completions allowed; 
prereq dept consent; 
Instructor: Lipscomb, Scott D. 
Description: Student may contact the instructor or department for information.

MUED 8900 Seminar: Music Education Doctoral Seminar
A-F only, 1 credit(s), max credits 8, 8 completions allowed; 
prereq dept consent; 
Instructor: Lipscomb, Scott D. 
Description: Student may contact the instructor or department for information.

Nanoparticle Science and Engineering
125 Mechanical Engineering

NPSE 8101 Nanoparticle Science and Engineering Seminar
S-N only, 1 credit(s); prereq IT grad student or; 
Instructor: Oh, Sang-Hyun 
Description: Student may contact the instructor or department for information.

Naval Science
203 Armory

NAV 1000 Professional Training in Naval Science
S-N only, 1 credit(s); prereq enrolled in NROTC; 
Instructor: Fitzsimmons, Cameron Ann 
Description: Student may contact the instructor or department for information.

NAV 1102 Seapower and Maritime Affairs
A-F only, 3 credit(s); 
Instructor: McFadden, Taeko Elizabeth 
Description: Student may contact the instructor or department for information.

NAV 2000 Professional Training in Naval Science
S-N only, 1 credit(s); prereq Soph enrolled in NROTC; 
Instructor: Fitzsimmons, Cameron Ann 
Description: Student may contact the instructor or department for information.

NAV 2201 Ship Systems I: Naval Engineering
A-F only, 3 credit(s); 
Instructor: Essler, Joshua David 
Description: Student may contact the instructor or department for information.

NAV 2202 Ship Systems II: Science and Technology in Naval
Neuroscience
6-145 Jackson Hall

NSC 5202 Theoretical Neuroscience: Systems and Information Processing
3 credit(s); prerequisite 3101, 3102W recommended;
Instructor: Redish, David
Description: Student may contact the instructor or department for information.

NSC 5462 Neuroscience Principles of Drug Abuse
2 credit(s); prerequisite instructor consent; Credit will not be granted if credit has been received for: PHCL 5462;
Instructor: Seybold PhD, Virginia S
Description: Student may contact the instructor or department for information.

NSC 5661 Behavioral Neuroscience
A-F only, 3 credit(s); prerequisite Grad NSc major or grad NSc minor or instructor 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); prerequisite instructor 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.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
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 presentation, 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% other evaluation, classroom activities and interactions; 25% teach evaluation of classroom activities and interactions; 15% journal

NSCI 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirements; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This course consists of laboratory or field investigation of selected areas of research, done under the direction of a faculty mentor. The course is writing intensive. Students will have the opportunity to present the results of their research in the format of a scientific article. They will learn to survey the current literature in their area of research, organize data, use statistical analyses if appropriate, and effectively communicate the results of their experiments through construction of tables, graphs, and other figures. Also, students will draw conclusions from their data and use persuasive arguments to convince readers of their interpretations of the data. Students will be required to write a 10-15 page paper in the format of a scientific article. This course is graded pass/fail, and the final grade is based on successful completion of the review article.
Grading: 100% reports/papers.

NSCI 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent, dept consent; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirements; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

NSCI 5110 Dental Neuroscience for Graduate Students
A-F only, 2 credit(s); prereq credit will not be granted if credit received for: 6110; BioC 3021, Biol 4004, instr consent; intended for grad students who require a comprehensive grad-level neuroscience course;
Instructor: Simone, Donald A
Description: Student may contact the instructor or department for information.

NSCI 5111 Medical Neuroscience for Graduate Students
A-F only, 5 credit(s); prereq credit will not be granted if credit received for: 6111; BioC 3021, Biol 4004, instr consent; intended for grad students who require a comprehensive medically-oriented neuroscience course;
Instructor: Giesler Jr, Glenn J
Description: Student may contact the instructor or department for information.

NSCI 6110 Neuroscience for Dental Students
A-F only, 2 credit(s); prereq credit will not be granted if credit received for: 5110; Dental student;
Instructor: Simone, Donald A
Description: Student may contact the instructor or department for information.

NSCI 6112 Medical Neuroscience for Professional Students
S-N only, 5 credit(s); prereq BioC 3021, Biol 4004, instr consent; intended for non-medical professional students;
Instructor: Giesler Jr, Glenn J
Description: Student may contact the instructor or department for information.
NOR 1002 Beginning Norwegian
5 credit(s); prerequisite: 1001; Credit will not be granted if credit has been received for: NOR 4002;
Instructor: STAFF
Description: The course continues the beginning language students’ acquisition of proficiency in all four areas of Norwegian: listening, speaking, reading, and writing. Students will also gain knowledge of Norwegian culture through various means, including: the required text, “PA VÆI” and the CD and grammar diskette which accompany the workbook. Lecture, class discussions and classroom exercises will be conducted in Norwegian. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Norway is an integral part of the course. See the description for Nor 4002 for an option for qualified students to register for this course for 2 credits (and lower tuition) instead of 4 credits.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.
Grading: 6% midterm exam, 20% final exam, 35% quizzes, 14% class participation, 25% other evaluation. 14% homework, 6% skit, 5% journal
Exam Format: structured exercises in all 4 modalities and grammar, pronunciation, vocabulary and culture

NOR 1004 Intermediate Norwegian
5 credit(s); prerequisite: 1103; Credit will not be granted if credit has been received for: NOR 4004;
Instructor: STAFF
Description: This course continues the presentation of Norwegian language skills begun in 1001-2. It is designed to review and expand your knowledge of Norwegian language structure, and to increase your comprehension and communicative abilities in the language. The primary text for the course is Stein pa stein by Ellingsen and MacDonald with an accompanying workbook with CD and grammar diskette. Students should expect to prepare at home for proficiently and actively participating in large and small-group interactive communicative activities in class. At this level, you will be reading and listening to more advanced authentic Norwegian material and you will expand and refine your vocabulary and your knowledge of grammar. The 1003-1004 course sequence will prepare you for the Graduation Proficiency Text (GPT) that you will take toward the end of 1004. See the description for Nor 4004 for an option for qualified students to register for this course for 2 credits (and lower tuition) instead of 4 credits.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.
Grading: 100% other evaluation: 50% reading/writing; 50% oral/aural
Exam Format: written essays, listening and reading protocols, structural exercises, oral interviews

NOR 4002 Beginning Norwegian
2 credit(s); prerequisite: 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: NOR 1002;
Instructor: STAFF
Description: See the course description for Nor 1002. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you have already passed the Graduation Proficiency Test (GPT) in another language or are a graduate student or are not seeking a CLA degree, you may register for Nor 1002 under the number Nor 4002 for 2 credits. Contact the department office, 612-625-2080, for a permission number.
Style: skits and presentations
Grading: 6% midterm exam, 20% final exam, 34% quizzes, 14% class participation, 25% other evaluation. 6% skit, 5% journal, 14% homework

NOR 4004 Intermediate Norwegian
2 credit(s); prerequisite: 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: NOR 1004;
Instructor: STAFF
Description: See the course description for Nor 4004. This 4xxx-level course designator is a special option for qualified students to take the 1xxx-level course for reduced credits. If you have already passed the Graduation Proficiency Test (GPT) in another language or are a graduate student or are not seeking a CLA degree, you may register for Nor 1004 under the number Nor 4004 for 2 credits. Contact the department office, 612-625-2080, for a permission number.

Nursing
6-101 Weaver-Densford Hall

NURS 2001 Human Growth and Development: A Life Span Approach
3 credit(s); prerequisite General psychology course; Meets CLE requirements of Social Science Core;
Instructor: Alainz,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); prerequisite Undergrad or instr consent;
Instructor: Kerr,Madeleine June
Description: Student may contact the instructor or department for information.

NURS 3690 Life Span, Growth, and Development I
2 credit(s); prerequisite One general psychology and one general biology course or instr consent;
Instructor: Davis PhD,Joan Audray
Description: This course uses a life span perspective to explore transitions and change from conception through early adulthood. The course was developed for nursing students to give them a broad background in human growth and development across the life span. Nurses and other health care professionals need to understand normal development in order to effectively help people deal with health problems. This course provides a good foundation for further study in a specialty area, and many nurses and other health care professionals will choose to take additional courses that deal with specific developmental periods. The course will appeal to a broad range of students who are interested in learning about the biosocial, cognitive, and psychosocial forces that shape human lives. In this course you will explore change and transitions that occur from conception through early adulthood. The biosocial, cognitive, and psychosocial domain paradigm provides a life span perspective that shifts, depending upon which domain is the dominant and moving force during a particular developmental period, or ?season of life.? The textbook by Kathleen Berger, The Developing Person through the Life Span, organizes its discussion of human development around these three domains. Because human development is holistic, each of these dimensions of development is related to the others. The terms Berger employs for these three interrelated domains emphasize that biological, physiological, and psychological factors of development must be viewed in the context of social and cultural forces: no human development takes place in a vacuum. The three domains interact to shape and pace human development across the span. In this course you will learn about parts of the paradigm that may be altered so you can shape your own life or help others alter their life patterns. By the end of this course you should be able to: --describe the first part of the life span as an ongoing biosocial, cognitive, psychosocial developmental process; --analyze different developmental events from a variety of theoretical perspectives (including cognitive, learning, and humanistic) and recognize these perspectives when you encounter them in others? work; and - compare and contrast the methods used to study life span development and describe how
various research methods may influence findings and conclusions about age-related developmental changes. **Style:** This is a printed correspondence section.

**Grading:** written assignments = 80 points, midterm exam = 60 points, final exam = 60 points.

**NURS 3702 Foundations of Professional Nursing**
A-F only, 3 credit(s); prerequisite Nursing student or instructor consent; 
Instructor: O’Connor-Von PhD, Susan K. 
Description: Student may contact the instructor or department for information.

**NURS 3702 Foundations of Professional Nursing**
A-F only, 3 credit(s); prerequisite Nursing student or instructor consent; 
Instructor: Rhudy, Lori M 
Description: Student may contact the instructor or department for information.

**NURS 3704 Nursing Fundamentals I: Assessment and Intervention**
A-F only, 5 credit(s); prerequisite Nursing student or instructor consent; 
Instructor: Steffes, Mary Teresa 
Description: Student may contact the instructor or department for information.

**NURS 4025V Honors: Nursing Theory and Research**
3 credit(s); prerequisite Nurs honors; Meets CLE req of Writing Intensive; 
Instructor: Lindquist, Ruth Ann 
Description: Student may contact the instructor or department for information.

**NURS 4025V Honors: Nursing Theory and Research**
3 credit(s); prerequisite Nurs honors; Meets CLE req of Writing Intensive; 
Instructor: Looman PhD, Wendy Sue 
Description: Student may contact the instructor or department for information.

**NURS 4025W Nursing Theory and Research**
A-F only, 3 credit(s); prerequisite Undergrad in nursing; Meets CLE req of Writing Intensive; 
Instructor: Lindquist, Ruth Ann 
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: Prerequisite: Nursing Student Develop skill in assessment of biopsychosocial needs, develop a holistic plan of care, help client negotiate care, and evaluate client outcomes. Students will establish therapeutic relationships with clients experiencing psychiatric illnesses using self as a therapeutic tool in promoting mental health. Prerequisites: Enrolled as Nursing Student in the School of Nursing. **Style:** 50% Lecture, 2% Film/Video, 2% Discussion, 40% Laboratory, 2% Demonstration, 3% Guest Speakers, 1% Web Based. 
**Grading:** 20% mid exam, 20% final exam, 40% reports/papers, 15% additional semester exams, 5% class participation. A passing grade on clinical evaluations is required to pass the course. 
**Exam Format:** Multiple choice

**NURS 4322 Population-based Public Health Nursing**
A-F only, 5 credit(s); prerequisite Nursing or instructor consent; 
Instructor: Flaten, Carol 
Description: Student may contact the instructor or department for information.

**NURS 4326 Nursing Care of Older Adults**
A-F only, 3 credit(s); prerequisite Human Experience of Health and Illness, Introduction to Ethics, Introduction to Nursing, Therapeutic Communication, Nursing Fundamentals, Complex Nursing Interventions, Family Focused Care Across the Lifespan: I; 
Instructor: Dean, Patrick Joseph 
Description: Student may contact the instructor or department for information.

**NURS 4402 Taking Ethical Action in Health Care**
1 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; 
Instructor: O’Connor-Von PhD, Susan K. 
Description: Student may contact the instructor or department for information.

**NURS 4402 Taking Ethical Action in Health Care**
1 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; 
Instructor: Rowan, Mary M. 
Description: Student may contact the instructor or department for information.

**NURS 4403 Nursing Care of Childbearing Families**
A-F only, 4 credit(s); prerequisite 4201, 4203; 
Instructor: Larson, Karin J 
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); prerequisite 4201, 4203; 
Instructor: Fjone, Andrea 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); prerequisite Nursing student or instructor 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 4502 Clinical Immersion
A-F only, 6 credit(s); prereq 3702, 3704, 3706, 4200, 4203, [4205V or 4205W], 4322, 4326, 4500, 4504;
Instructor: Rhudy,Lori M
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 4504 Professional Issues
A-F only, 2 credit(s); prereq Concurrent registration is required (or allowed) in 4500;
Instructor: Kerr,Madeleine June
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: Friedrich,Cheri L
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: Examines the implications of informatics for practice, including nursing, public health, and healthcare in general. Discusses electronic health record issues. Relates ethical, legislative and political issues informatics. Explores global and future informatics issues. Students work in groups to complete 4 assignments that build on each other to demonstrate how to analyze a use case (clinical situation), use diagrams to identify gaps in workflow processes, map user (local) terms to standardized terminologies, and develop a business case for for exchange of information between information systems to support patient transitions across health care settings. The course is primarily internet-based with 2-3 in person sessions

NURS 5115 Interprofessional Health Care Informatics
A-F only, 3 credit(s);
Instructor: Clancy,Thomas R
Description: Student may contact the instructor or department for information.

NURS 5183 Scholarly Leadership
S-N only, 1 credit(s); prereq Advanced doctoral nursing student, instr consent;
Instructor: Edwardson,Sandra R
Description: Student may contact the instructor or department for information.

NURS 5223 Assessment of Psychopathology for Advanced Practice Psychiatric/Mental Health Nursing
4 credit(s); prereq Nurs grad or inst consent;
Instructor: Kaas,Merrie Jean
Description: Student may contact the instructor or department for information.

NURS 5229 Clinical Pharmacotherapeutics
2-4 credit(s), max credits 4, 1 completion allowed; prereq 5222, 5228, nursing DNP student, instr consent;
Instructor: Benbenek,Mary Mescher
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 completion allowed; prereq Nurs grad major, instr consent;
Instructor: Ringdahl,Deborah Rene
Description: Student may contact the instructor or department for information.

NURS 5830 Advanced Clinical Nursing
1-6 credit(s), max credits 6, 1 completion allowed; prereq Grad nursing major, instr consent;
Instructor: O'Conner-Von Susan K.
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: O'Conner-Von Susan K.
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: Treat-Jacobson PhD,Diane Jeanette
Description: Student may contact the instructor or department for information.

NURS 6200 Science of Nursing Intervention
A-F only, 3 credit(s); prereq Admission to DNP Program;
Instructor: Rhudy,Lori M
Description: Student may contact the instructor or department for information.

NURS 7101 DNP Seminar II
S-N only, 4 credit(s); prereq Admission to DNP program;
Instructor: Olson Keller,Linda
Description: Student may contact the instructor or department for information.

NURS 8134 Interventions and Outcomes Research
A-F only, 3 credit(s); prereq 8121, PhD student, instr consent;
Instructor: Bliss PhD,Donna Zimmaro
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 completion allowed; prereq 8170 or equiv;
Instructor: Peden-McAlpine,Cynthia Jeanne
Description: Student may contact the instructor or department for information.
NURS 8173 Principles and Methods of Implementing Research
3 credit(s); prereq 8114 or other 8xxx grad research
methods course, 2 grad stat courses; Credit will not be
granted if credit has been received for: SAPH 8173;
Instructor: Gross, Cynthia R
Description: Student may contact the instructor or department
for information.

NURS 8181 Protection of Research Subjects
1 credit(s); prereq [PhD student or instr consent],
[Responsible Conduct of Research I, RCR II] or NIH
Web-based course equiv or concurrent;
Instructor: Bearinger, Linda Holm
Description: Student may contact the instructor or department
for information.

NURS 8182 Policy Implications of Nursing Research
S-N only, 1 credit(s); prereq Nursing doctoral student or
instr consent);
Instructor: Chesney, PhD, Mary L
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: Gaugler, PhD, Joseph E
Description: A major objective of this course is for students to
integrate qualitative research strategies (e.g., ethnographic data;
the process and meaning of phenomena) with quantitative
approaches (empirical; description and generalizability) in their
own dissertation designs. Students will examine the
complementary strengths of using this mixed-methodological
framework when determining the etiology of relevant outcomes
or evaluating interventions to improve these outcomes. The initial
modules of the course will focus on various models of
mixed-methodology. The second set of modules will examine
critical issues that arise from implementing mixed methods
design (e.g., validity, generalizability, analysis). The final module
of the course will identify and critique research studies that have
successfully incorporated mixed methodologies to answer key
research questions of interest (e.g., community-based participatory
research partnerships). Throughout this course, students will apply mixed methods strategies to refine and
expand the scope of their own research.

NURS 8194 Problems in Nursing - Plan B
S-N only, 1-6 credit(s), max credits 6, 3 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or
concurrent enrollment 8170], instr consent;
Instructor: O'Conner-Von, PhD, Susan K
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 completions allowed;
prereq [8100 or concurrent enrollment 8100], [8170 or
concurrent enrollment 8170], instr consent;
Instructor: Chlan, Linda Lee
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 completion allowed; prereq AH6
grad student or instr consent;
Instructor: Edwardson, Sandra R
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 completion allowed;
prereq 5222, 5800, 6100, 8140, 8170, instr consent;
Instructor: Zaccagnini, Mary E
Description: Student may contact the instructor or department
for information.

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, 4-6 credit(s), max credits 6, 1 completion 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 completion allowed;
prereq 8322, 8xxx advanced gerontological nurs course,
grad nrs major, instr consent;
Instructor: Pung, Laurie Jean
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: Kaas, Merrie Jean
Description: Student may contact the instructor or department
for information.

NURS 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 completion allowed; prereq
Grad nrs major, instr consent;
Instructor: Duckett, Laura J
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 completion allowed;
prereq 5200, 5222, 5224, 8242;
Instructor: Nygaard, 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: Nygaard, Georgia Gayle
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: Schadowald, 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); prereq 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 completion allowed; prereq 5200, concurrent enrollment 8450, instr 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); prereq 8454, 8455, instr 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); prereq 8124 or equiv, 8100, 8456, instr 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); prereq 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 completion allowed; prereq 5200, instr consent; Instructor: Plumbo, Margaret Anne
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 completion allowed; prereq 5200, instr consent; Instructor: Ringdahl, Deborah Rene
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 completion allowed; prereq 8503 or 8520; Instructor: Ringdahl, Deborah Rene
Description: Student may contact the instructor or department for information.

NURS 8601 Interventions for Health of Populations
3 credit(s); prereq 8040; Instructor: Findorff, Mary Jocelyn
Description: Student may contact the instructor or department for information.

NURS 8602 Public Health Nursing Intervention Practicum
S-N only, 3 credit(s); prereq 8242, 8601; Instructor: Findorff, Mary Jocelyn
Description: Student may contact the instructor or department for information.

NUTR 5622 Vitamin and Mineral Biochemistry
3 credit(s); prereq BioC 3021, Phsl 3051, FSCN 4612; Instructor: Gallaher, Daniel David
Description: This course focuses on the physiological functions and biochemical actions of vitamins and essential minerals. Topics discussed for each include absorption, transport, storage, metabolic function, reaction mechanism, excretion, and toxicity. Examples of deficiency signs are given extensively. Also considered are interactions among vitamins and essential minerals, approaches to biochemical assessment of status, and dietary requirements. The format is primarily lecture, with in-class discussion. The class is intended for graduate students with an interest in nutrition and undergraduate nutrition science students. Style: 95% Lecture, 5% Student Presentation. Grading: 84% mid exam, 16% final exam, 20% reports/papers. Exams are non-cumulative. Exam Format: Exams are primarily essay with some multiple choice. Essay questions are a combination of short and long answers. Exams are not time-limited.

NUTR 5624 Nutrition and Genetics
A-F only, 2 credit(s); prereq Biochemistry; Instructor: Peterson, Sabrina
Description: Student may contact the instructor or department for information.

NUTR 5620 Advances in Nutrition
2-3 credit(s), max credits 6, 3 completions allowed; prereq instr consent; Instructor: Crow, Scott John
Description: Student may contact the instructor or department for information.

NUTR 8695 Independent Study: Nutrition
1-10 credit(s), max credits 30, 3 completions allowed; prereq instr consent; Instructor: Cariad-Barrett, Anna
Description: Student may contact the instructor or department for information.

Obstetrics and Gynecology
12-211 MoosT (Box 395 UMHC)

OBST 8224 Gynecological Endocrinology I
1-15 credit(s), max credits 15, 1 completion allowed; prereq 8223; Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8225 Gynecological Endocrinology II
1-15 credit(s), max credits 15, 1 completion allowed; prereq 8224; Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8226 Obstetrical Physiology and Anesthesiology
1-15 credit(s), max credits 15, 1 completion allowed; prereq 8225; Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8227 Preceptorship in Clinical Practice
1-15 credit(s), max credits 15, 1 completion allowed; prereq 8226; Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8240 Human Gametes and Fertilization
3 credit(s); Instructor: Carson, Linda F
Description: Student may contact the instructor or department for information.

OBST 8241 Human Gametes and Fertilization Laboratory

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
### Occupational Therapy

**271 Children's Rehabilitation Center (Box 388 UMHC)**

<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>OT 1003</td>
<td>Orientation to Occupational Therapy</td>
<td>S-N only, 1 credit(s);</td>
<td>Jacobs, C</td>
<td>This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit &quot;Class URL&quot; for ODL policies, including fee and financial aid information. This course is designed to help you decide whether a career in occupational therapy is the right choice for you. In this course, you will learn what occupational therapy is and how occupational therapists use activity as a treatment modality. The lessons will describe some of the treatment settings in which you might work as an occupational therapist. This course is required if you wish to apply to the master's program in occupational therapy at the University of Minnesota. Course Outline: Lesson 1: Foundations of Occupational Therapy Lesson 2: Working in the Public Schools Lesson 3: Working with Physical Disabilities Lesson 4: Working with Psychosocial Problems Lesson 5: Working with the Elderly Lesson 6: Research, Scholarship, and Academia Lesson 7: Professionalism and Management Lesson 8: Current Trends and Emerging Areas of Practice Style: 100% Web Based. Grading: 54% final exam, 16% quizzes, 30% written homework. S/N</td>
</tr>
<tr>
<td>OT 5395</td>
<td>Independent Study in Occupational Therapy</td>
<td>1-4 credit(s), max credits 16, 16 completions allowed;</td>
<td></td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>OT 6200</td>
<td>Public and Professional Engagement II</td>
<td>S-N only, 0.5 credit(s), max credits 1.5, 3 completions allowed;</td>
<td>Martin Ph.D., Peggy Mae</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>OT 6201</td>
<td>Functional Anatomy and Kinesiology</td>
<td>A-F only, 3 credit(s);</td>
<td>Mathiowetz Ph.D., Virgil G</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>OT 6202</td>
<td>Occupational Therapy Process for Individuals: Occupation Through Compensation</td>
<td>A-F only, 5 credit(s);</td>
<td>Jones, Terriannne Thielen</td>
<td>Description: Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>

### Off-Campus Study

**220 Johnston Hall**

<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>OCS 3550</td>
<td>National Student Exchange: Off-Campus Study</td>
<td>S-N only, 0 credit(s);</td>
<td>STAFF</td>
<td>This course registration allows students to study in a different part of the United States for up to a year through National Student Exchange. There are more than 170 National Student Exchange (NSE) institutions in Hawaii, Florida, and 48 other states and regions, including Puerto Rico, Guam, the Virgin Islands, and Canada. The application deadline for participation in the following academic year is mid-February. Prerequisite: application and acceptance into the National Student Exchange program in the Career and Community Learning Center.</td>
</tr>
</tbody>
</table>

### Ojibwe

**19 Scott Hall**

<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>OJIB 1102</td>
<td>Beginning Ojibwe II</td>
<td>5 credit(s);</td>
<td></td>
<td>Credit will not be granted if credit has been received for: OJIB 4102;</td>
</tr>
</tbody>
</table>
OMS 3056 Supply Chain Planning and Control
A-F only, 4 credit(s); prerequisite 3001 or instructor consent
Instructor: STAFF
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3059 Quality Management and Lean Six Sigma
A-F only, 4 credit(s); prerequisite 3001 or equivalent or instructor consent
Instructor: STAFF
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OM 3072 Managing Technologies in the Supply Chain
A-F only, 2 credit(s); prerequisite 3001
Instructor: Fiedler, Corinne (Corri)
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OM 3074 Supply Chain Operations Strategy
A-F only, 4 credit(s); prerequisite 3001, 3056, 3059, 4 OMS elective cr
Instructor: Donohue, Karen Lisa
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OM 3075 Managing Supply Chain Operations
A-F only, 4 credit(s); prerequisite MBA 6220 or equivalent
Instructor: Sinha, Kingshuk Kanti
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3078 Project Management
A-F only, 2 credit(s); prerequisite MBA 6220 or equivalent
Instructor: Sinha, Kingshuk Kanti
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3080 Advanced Ojibwe Language II
A-F only, 3 credit(s), maximum 12, 4 completions allowed
Instructor: Fairbanks, Brendan George
Description: This course focuses on improving overall speaking, writing, and comprehension skills in the Ojibwe language through immersion. Therefore, this course will be delivered in the Ojibwe language. The use of English will usually be restricted to the explanation of difficult concepts. We will continue to focus on grammar patterns, sentence patterns, reduplication, mi-phrase, discourse markers, as well as the VTA paradigm.

OMS 3081 Introduction to Operations Management
A-F only, 3 credit(s)
Instructor: STAFF
Description: Basic concepts, principles, and techniques for managing manufacturing and service operations. Emphasis on decision making in the operations function of organizations. Quantitative and qualitative methods for improving the management of operations stressed. Management students provided with an appreciation of the operations function of organizations.

OMS 3083 Project Management
A-F only, 2 credit(s); prerequisite MBA 6220 or equivalent
Instructor: Sinha, Kingshuk Kanti
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3085 Operations Management
A-F only, 4 credit(s); prerequisite 3001, 3056, 3059, 4 OMS elective cr
Instructor: Fiedler, Corinne (Corri)
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3086 Business Statistics: Data Sources, Presentation, and Analysis
A-F only, 4 credit(s); prerequisite [Math 1031 or equivalent], at least 30 cr credit will not be granted if credit is received for: 1550; Credit will not be granted if credit has been received for: OMS 2550H
Instructor: STAFF
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3087 Project Management
A-F only, 2 credit(s); prerequisite MBA 6220 or equivalent
Instructor: Sinha, Kingshuk Kanti
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3089 Advanced Ojibwe Language II
A-F only, 3 credit(s), maximum 12, 4 completions allowed
Instructor: Fairbanks, Brendan George
Description: This course focuses on improving overall speaking, writing, and comprehension skills in the Ojibwe language through immersion. Therefore, this course will be delivered in the Ojibwe language. The use of English will usually be restricted to the explanation of difficult concepts. We will continue to focus on grammar patterns, sentence patterns, reduplication, mi-phrase, discourse markers, as well as the VTA paradigm.

OMS 3090 Introduction to Operations Management
A-F only, 3 credit(s)
Instructor: STAFF
Description: Basic concepts, principles, and techniques for managing manufacturing and service operations. Emphasis on decision making in the operations function of organizations. Quantitative and qualitative methods for improving the management of operations stressed. Management students provided with an appreciation of the operations function of organizations.

OMS 3091 Project Management
A-F only, 2 credit(s); prerequisite MBA 6220 or equivalent
Instructor: Sinha, Kingshuk Kanti
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3092 Project Management
A-F only, 2 credit(s); prerequisite MBA 6220 or equivalent
Instructor: Sinha, Kingshuk Kanti
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3093 Project Management
A-F only, 2 credit(s); prerequisite MBA 6220 or equivalent
Instructor: Sinha, Kingshuk Kanti
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.

OMS 3094 Project Management
A-F only, 2 credit(s); prerequisite MBA 6220 or equivalent
Instructor: Sinha, Kingshuk Kanti
Description: This course covers the principles and concepts related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Material Requirements Planning (MRP), Just-in-Time, and theory of constraints.
**Oral and Maxillofacial Surgery**

**7-174 MoosT**

- **OBIO 8028 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.

- **OBIO 8030 Oral Biology Seminar**
  - S-N only, 1 credit(s), max credits 10, 10 completions allowed; prereq Dental specialist or oral research trainee or instr consent;
  - Instructor: Herzberg, Mark C
  - Description: Student may contact the instructor or department for information.

- **OSUR 5257 Ambulatory General Anesthesia for the Oral and Maxillofacial Surgeon**
  - A-F only, 0-6 credit(s), max credits 6, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

- **OSUR 5276 Medicine Rotation for the Oral and Maxillofacial Surgeon**
  - A-F only, 0-4 credit(s), max credits 4, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

- **OSUR 8250 Oral and Maxillofacial Surgery Rotation for the Oral and Maxillofacial Surgeon**
  - A-F only, 0-6 credit(s), max credits 6, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

- **OSUR 8251 Oral and Maxillofacial Surgery Core Curriculum**
  - A-F only, 0-2 credit(s), max credits 2, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

- **OSUR 8253 Case Presentations and Chief Conferences**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

- **OSUR 8255 General Surgery Rotation for the Oral and Maxillofacial Surgeon**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

- **OSUR 8256 Contemporary Anesthesia Literature Review**
  - A-F only, 0-3 credit(s), max credits 3, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

- **OSUR 8260 Surgical Rounds for the Oral and Maxillofacial Surgeon**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

- **OSUR 8262 Plastic Surgery Rotation for the Oral and Maxillofacial Surgeon**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

- **OSUR 8267 Anesthesia Rotation for the Oral and Maxillofacial Surgeon**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Participation in oral and maxillofacial surgery training program;
  - Instructor: Hughes, Pamela Jean
  - Description: Student may contact the instructor or department for information.

**Orthodontics**

**15-209 MoosT**

- **OTHO 7103 Growth & Development**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion 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 completion allowed; prereq Admission to graduate orthodontic program;
  - Instructor: Vayda, Patricia Macchiarul
  - Description: Student may contact the instructor or department for information.

- **OTHO 7203 Clinical Orthodontics**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Admission to graduate orthodontic program;
  - Instructor: Beyer, John Paul
  - Description: Student may contact the instructor or department for information.

- **OTHO 8123 Orthodontic Seminar**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Orthodontic grad student;
  - Instructor: Pilska DDS, MS, Benjamin T
  - Description: Student may contact the instructor or department for information.

- **OTHO 8133 Topics in Orthodontics**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion allowed; prereq Orthodontic grad student;
  - Instructor: Ekim, Lilah Suzan
  - Description: Student may contact the instructor or department for information.

- **OTHO 8143 Research in Orthodontics**
  - A-F only, 0-5 credit(s), max credits 5, 1 completion allowed;
OTOL 5101 Introduction to the Basic Sciences in Otolaryngology I: Ear
A-F only, 2 credit(s); prereq Otolaryngology major or instr consent;
Instructor: Anderson, John Harold
Description: Student may contact the instructor or department for information.

OTOL 5102 Introduction to the Basic Sciences in Otolaryngology II: Head and Neck
A-F only, 2 credit(s); prereq 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 8239 Otoneurology
1-2 credit(s), max credits 12, 12 completions 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 completions allowed; prereq Grad otol major;
Instructor: Boyer MD, Holly C
Description: Student may contact the instructor or department for information.

OTOL 8241 Cancer of the Head and Neck
A-F only, 1 credit(s), max credits 12, 12 completions 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;
Description: Student may contact the instructor or department for information.

PDEN 7000 Advanced Pediatric Dentistry for Postgraduate Dental Fellows
S-N only, 1 credit(s);
Instructor: Grothe, Ron
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 completion allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

PDEN 7200 Advanced Pediatric Dentistry Techniques
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

PDEN 8010 Pediatric Dentistry and Treatment Planning
A-F only, 1 credit(s);
Instructor: Grothe, Ron
Description: Student may contact the instructor or department for information.

PDEN 8031 Independent Pediatric Dentistry Study
2 credit(s);
Instructor: Grothe, Ron
Description: Student may contact the instructor or department for information.

PDEN 8100 Hospital Pediatric Dentistry I
S-N only, 1 credit(s);
Instructor: Grothe,Ron
Description: Student may contact the instructor or department for information.

PDEN 8110 Hospital Pediatric Dentistry II
S-N only, 3 credit(s);
Instructor: Grothe,Ron
Description: Student may contact the instructor or department for information.

Pediatrics
13-118 PWB (Box 391 UMHC)

PED 6121 Conflict, Anger, Aggression, Violence
A-F only, 2 credit(s); prereq Ped 6121/PubH 6121;
Instructor: Potegal,Michael
Description: Student may contact the instructor or department for information.

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

PERS 3102 Intermediate Persian II
5 credit(s); prereq 3101 or instr consent ; Credit will not be granted if credit has been received for: PERS 4104;
Instructor: Sadrai,Mahmoud
Description: Student may contact the instructor or department for information.

PERS 4102 Beginning Persian II
3 credit(s); prereq 4101, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: PERS 1102;
Instructor: Sadrai,Mahmoud
Description: Student may contact the instructor or department for information.

PERS 4104 Intermediate Persian II
3 credit(s); prereq 4103, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: PERS 3102;
Instructor: Sadrai,Mahmoud
Description: Student may contact the instructor or department for information.

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 completion allowed; prereq Upper div or grad student or instr consent ;
Instructor: Loh,Horace H
Description: Research projects and special problems by arrangement.

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 5462 Neuroscience Principles of Drug Abuse
2 credit(s); prereq instr consent ; Credit will not be granted if credit has been received for: NSC 5462;
Instructor: Seybold PhD,Virginia S
Description: Student may contact the instructor or department for information.

PHCL 8110 Advanced Pharmacology
A-F only, 4 credit(s); prereq 5110 or instr consent ;
Instructor: Loh,Horace H
Description: Student may contact the instructor or department for information.

PHCL 8216 Signal Transduction and Gene Expression
3 credit(s); prereq BIOC 8002 or instr consent ;
Instructor: Kim,Do-Hyung
Description: The PHCL8216 is a graduate-level course focused on mechanisms of cellular signal transduction. This course emphasizes intensive discussion in class on focused, selected topics. This year, the theme of the course is "insulin signaling, metabolism, and ageing". Except some introductory class as well as some lectures given by invited speakers, the class will discuss topics focused on the theme above. The course will have a couple of class to discuss about the basic principles of signal transduction, briefly introducing several well-characterized cell signaling pathways and important, useful experimental approaches to study signal transduction. The first two weeks will be given for lectures on general introduction on signal transduction. After that, we will discuss several specific topics on cell signaling based on literatures pertaining to the theme above. A general structure is that a lecture will be given for one day for general introduction on a specific cell signaling topic, which will be followed by discussion based on literature that will be assigned by each lecturer. Through employing this structure, the course will help expose students to basic, broad, and current knowledge on cell signaling mechanisms and their impacts on human diseases, and to experimental approaches on cell signaling studies. The course will require each student to submit a two-page concise proposal, and at the end of the course students will present their proposal. We will not have exams, and the grade will be based on the proposal, presentation, and attendance. For further inquiry, please email dhkim@umn.edu

PHCL 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 completions allowed; prereq instr consent ;
Instructor: Fairbanks,Carolyn Ann
Description: Student may contact the instructor or department for information.

PHAR 1001 Orientation to Pharmacy
2 credit(s);
Instructor: Lounsbery,Jody Leigh
Description: This is not a self-study course. While it is completely online, there are deadlines for assignments and assessments throughout the semester. No late registrations will be accepted. This course is designed for students seeking an overview of the profession of pharmacy, including the pharmaceutical care practice model, various pharmacy settings, pharmacy education and current opportunities and challenges within the profession. Students use WebVista to view audio-narrated presentations and download handout materials (also available for purchase). 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, Spring, and Summer term. For more information, see course website or contact pharintr@umn.edu or 612-625-4148.

PHAR 1002 Health Sciences Terminology
2 credit(s);
Instructor: Philbrick,Ann M
Description: This self-study, unlimited enrollment course has no prerequisites. It provides undergraduate students with introductory knowledge of health sciences terminology through a programmed learning approach. Students learn how to analyze and build words by using combining forms, suffixes, and prefixes in a systematic manner. This working knowledge of the medical language serves as a basis for further course work in the health sciences and/or enhances job skills in a wide variety of fields. The mandatory course orientation is completed entirely online. Course information is sent to registered students U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on this flexible course, explore the course website and/or contact medterm@umn.edu or 612-624-7976.
Style: Self-study with regularly scheduled in person testing sessions
Grading: Average of scores for 4 exams and 4 quizzes
Exam Format: Multiple choice and true/false

PHAR 1003 Non-Prescription Medications and Self-Care: Treating Minor Conditions
2 credit(s);
Instructor: Philbrick,Ann M
Description: This self-study, unlimited enrollment online course provides information related to nonprescription medications and appropriate self care. Knowledge gained empowers students to become informed consumers of over-the-counter medications. Examples of course topics include vitamins, herbal products, pain relievers and cold medications. Students use WebVista to view audio-narrated presentations and download handout materials (also available for purchase). There is no textbook for this course. 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 8-week Summer term. For more information on this flexible course, explore the course website and/or contact selfcare@umn.edu or 612-624-7976.
Style: Self-study, with regularly scheduled in-person testing sessions
Grading: Average of 4 exam scores

PHAR 1004 Common Prescription Drugs and Diseases
2 credit(s);
Instructor: Philbrick,Ann M
Description: This self-study, partially online course informs students about frequently prescribed medications (e.g., Lipitor) and the disease these medications are intended to treat (e.g., high cholesterol). Examples of course topics include: congestive heart failure, cancer, obesity, asthma, and pregnancy prevention. There is no textbook for this course. Students use WebVista to view audio-narrated 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 8-week Summer term. For more information on this flexible course, explore the course website and/or contact rxdx@umn.edu or 612-624-7976.
Style: Self-study with regularly scheduled in-person testing sessions
Grading: 5% reports/papers, 95% additional semester exams, average of 4 exam scores and case study. No final exam.
PHAR 1005 Directed Studies; Introduction to Drug Therapies of Addiction: Medicine or Menace? 2 credit(s); prereq Medical terminology recommended; Instructor: Lichtblau PhD, Leonard
Description: This completely online, self-study, unlimited enrollment course for undergraduate students provides an opportunity to explore the drug therapies (pharmacotherapy) of addiction. This course describes and explains the rationale behind drug regulation (what makes a drug controlled versus illicit versus simply prescription), the drug therapy strategies used to treat pain and how the concepts of tolerance, physical dependence, and addiction influence care, mechanisms of action of various illicit and prescription medications which are commonly misused (e.g. Ritalin), as well as the drug therapy of addiction (e.g. Methadone). This course is an opportunity for students to gain basic drug therapy knowledge in this topic area. If students enjoy this course, instructors are able to recommend additional, more advanced courses within this topic area. There is no textbook for this course. Students use WebVista to view audio-narrated presentations and download handout materials (also available for purchase). The required course orientation is completed online. Course information is sent to registered students U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. Completion of a medical terminology course (such as Phar 1002) is recommended, but not required. Phar 1003, Phar 1004 are not prerequisites, nor a sequence. Phar 1003, 1004, and 1005 can be taken individually and in any order. This course is not a professional-level course and does not count toward a professional degree (e.g. PharmD). For more information on this flexible course, explore the course website and/or contact dtherapy@umn.edu or 612-624-7976.
Style: 100% Web Based.

PHAR 3700 Fundamentals of Pharmacotherapy
A-F only, 3 credit(s); prereq Medical terminology; Credit will not be granted if credit has been received for: PHAR 3700; Instructor: Pittenger, Amy Louise
Description: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted. This course is designed for students pursuing careers that require them to have a basic familiarity with drug therapy. This course is offered totally online and will focus on recognition of brand and generic drug names, their therapeutic classes and common uses. In addition, participants will develop a basic proficiency in the use of drug information resources. With the competencies developed, participants of the course can expect to better review medication lists and work with health communication/documentation.
Style: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted.

PHAR 3800 Pharmacotherapy for the Health Professions
A-F only, 3 credit(s); prereq Anatomy/physiology, enrolled [nursing or respiratory care] student; Instructor: Louensbery, Jody Leigh
Description: This online course provides enrolled nursing 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-assessments, and take exams. Course information is sent to registered students U of M email addresses shortly before, and/or on, the first day of classes each Fall and Spring term. For more information, see course website or contact ptherapy@umn.edu or 612-625-4148.
Grading: 25% mid exam, 25% final exam, 50% quizzes.
Exam Format: Multiple choice

PHAR 4200W Drugs and the U.S. Health Care System
A-F only, 3 credit(s); 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 4200W Drugs and the US Healthcare System 3 cr. Prereqs: none Instructor: Pittenger, PharmD, MS, Amy L. This is not a self-study course. This completely 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 Project (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
Exam Format: there are no exams

PHAR 5200 Drugs and the U.S. Health Care System
A-F only, 3 credit(s); prereq [Grad or professional] student; Credit will not be granted if credit has been received for: PHAR 4200W; Instructor: Pittenger, Amy Louise
Description: Phar 5200 Drugs and the US Healthcare System 3 cr, Prereqs: graduate student or permission of instructor
Instructors: Pittenger, PharmD, MS, Amy L. This online course prepares students to be informed and responsible participants in debates related to medications within the U.S. healthcare system. Medication development, regulation and distribution in the US are explored, along with the business, political and legal/ethical issues involved. Through weekly reading and writing assignments, participants identify and substantiate their own stances on issues. Requirements include short writing assignments (finished writing in the form of postings to a discussion board) each week, self-reflections, and a Final Paper (10 pages) allowing exploration of issues of interest to you. For more information, see our course website http://courses.pharmacy.umn.edu or contact rxsystem@umn.edu or 612-624-7976.
Grading: 42% reports/papers, 30% reflection paper, 28% class participation. class participation is defined as discussion board postings

PHAR 5201 Health Sciences Applied Terminology
2 credit(s); prereq Basic knowledge of human anatomy/physiology; Instructor: Pittenger, Amy Louise
Description: This self-study, unlimited enrollment advanced course for undergraduates and professional students presumes basic knowledge of human anatomy and physiology. Students learn medical terms as well as how to apply them when documenting and reporting patient care procedures. Gaining this working knowledge of the medical language serves as a basis for further course work in the health sciences and/or enhances job skills in a wide variety of fields. The mandatory course orientation is completed online. Course information is sent to registered students U of M email addresses shortly before, and/or on, the first day of classes each Fall semester, Spring semester, and 8-week Summer term. For more information on this flexible course, explore the course website and/or contact medterm@umn.edu or 612-624-7976.
Grading: 9% quizzes, 91% additional semester exams. Average of scores for 4 exams and 4 quizzes

PHAR 5700 Applied Fundamentals of Pharmacotherapy
A-F only, 3 credit(s); prereq [Medical terminology, admission to grad program] or instructor consent; Instructor: Pittenger, Amy Louise
Description: This is not a self-study course. While it is completely online, there are deadlines for assignments throughout the semester. No late registrations will be accepted.

Instructors: Pittenger, PharmD, MS, Amy L.
Description: Prerequisite: Medical Terminology and admitted to a graduate program (or permission of instructor) This course is designed for students pursuing careers that require them to have a basic familiarity with drug therapy. This course is offered totally online and will focus on recognition of brand and generic drug names, their therapeutic classes and common uses. In addition, participants will develop a basic proficiency in the use of drug information resources. With the competencies developed, participants of the course can expect to better review medication lists and work with health communication/documentation. As compared to Phar 3700, Phar 5700 participants will complete a multimedia project on a drug-related topic of their choosing, in addition to completing additional learning modules on subjects appropriate to their profession. This course also requires completion of 14 online modules, which include audio narrated presentations, study guides and self test questions.

PHIL 1001 Introduction to Logic
4 credit(s); Credit will not be granted if credit has been received for: PHIL 1001H; Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF
Description: Have you ever heard an argument that you knew wasn't any good, but you didn't have the tools you needed to show what was wrong with it? This course will give you those tools. We will look at many different kinds of arguments and we will identify the patterns of good and bad arguments. You will learn a method for describing and analyzing these patterns so that you will be able to evaluate even very complicated arguments in a straightforward way. Armed with these abilities you will be able to diagnose the problems with faulty arguments and you will be better equipped to come up with excellent arguments of your own. Your writing will become clearer, better argued, and more forceful. And most of all, your will become a clearer and more reasonable thinker. Logic cannot teach you what to think, but it will teach you how to think, and thinking logically is a crucial skill for you as a student and a citizen.

PHIL 1001 Introduction to Logic
4 credit(s); Credit will not be granted if credit has been received for: PHIL 1001H; Meets CLE req of Mathematical Thinking Core;
Instructor: Berrier, Monica Jean
Description: Logic and logical are words that we use every day with a variety of meanings, but you may still wonder what a course in logic is actually about. It might be easiest to make an analogy to arithmetic: on a relatively simple level, arithmetic is about numbers and relationships between numbers (addition, subtraction, etc.). Similarly, on a relatively simple level, logic is about sentences and relationships between sentences. What does that mean? Humans' primary means of communicating information is through language, and language is embodied in sentences. However, when we receive information via sentences, we can reason about the information contained in those sentences. So, if you hear someone is an orphan, you would infer that that person's parents died and he or she probably grew up with relatives. Alternatively, if you hear that someone is from the United States, you would infer that that person speaks English. These seem like reasonable inferences to make. Logic provides an explanation for why these inferences are reasonable. That is, logic is the study of reliable methods of drawing conclusions from given information. What do I mean by reliable? Inferences are valuable based on whether it is true or false. So, logicians are interested in the patterns between sentences, which are patterns of truth and falsehood. For example, if everything I have been told by someone is true, what else can I figure out that will be true as well? The earlier examples demonstrate this kind of reasoning (although some of the information is not expressed explicitly). Alternatively, another pattern we can consider is whether it is possible for a set of sentences to be true at the same time. This last relation most often comes into play when we suspect that someone is lying to us. For instance, if Bill says he was at work until five and was home at six, but his commute takes at least two hours, then we would know (not just suspect) that at least one of Bill's statements was a lie. That is, all of those three sentences could not be true at the same time. So, reliable methods of reasoning will be those that give us an answer about the truth or falsity of something - and guarantee that answer. The above examples show that logical reasoning is something we all do naturally, and something we naturally do quite well. However, it is something we can do better. This is an introductory course, so we will consider only the most basic and most reliable forms of reasoning. The world is a very complicated and messy place - not everything is black and white, true or false. However, I strongly believe that logic can help us navigate through the vast amounts of information presented to us every day by giving us solid rules that let us observe our own and others' reasoning more carefully.

Style: This is a printed correspondence section.
Grading: 20% mid exam, 20% final exam, 60% written homework. For complete grading information see the downloadable syllabus.

PHIL 1002W Introduction to Philosophy
4 credit(s); Credit will not be granted if credit has been received for: PHIL 1006W; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Sawyer, Nate
Description: Are all human actions selfish and only selfish? What response should we make when people act badly? Are forgiveness and mercy genuine moral virtues? What is the moral value of personal attachments such as love and friendship? In this course you learn what ethics is by exploring these and related questions. You also become acquainted with such standard ethical theories as act and rule utilitarianism and Kantianism.

PHIL 1003W Introduction to Ethics
4 credit(s); Credit will not be granted if credit has been received for: PHIL 1006W; Meets CLE req of Other Humanities Core; meets CLE req of Writing Intensive;
Instructor: Brito, Marisol
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid information. This course is an introduction to ethics, or moral philosophy. The word ethics is derived from the Greek word for habits or character traits. The word moral comes from the Latin root mores, which means customs or practices. So a course in ethics is about our character or tendency to act in certain customary ways. It tries to help us determine how to conduct our life, or how to live. Within this broad topic, many specific questions arise: What is a good action? What would we do in a certain situation? What are we obligated to do? When should we not do something? When are we to blame for doing something? When are others to blame? The study of ethics also raises the questions: Is the study of ethics even possible? How can we study and discuss ethics when there is so much disagreement about ethical questions? This course will study three ethical theories--as presented in John Stuart Mill's Utilitarianism, Immanuel Kant's Grounding for the Metaphysics of Morals, and...
PHIL 1905: Topics: Freshman Seminar: Socrates and Philosophy
A-F only, 3 credit(s), max credits 6; prereq freshman;
Instructor: Peterson, Sandra Lynne
Description: The execution of Socrates in 399 B.C. for corrupting the youth of Athens is considered a founding event of Western philosophy. We will study Socrates and his conception of philosophy as depicted in Plato’s dialogues (since Socrates himself wrote nothing). We will read Plato’s depiction of Socrates? defense speech at his trial, (conversations between Socrates and some adolescents, and conversations between Socrates and some professional educators of Athenian youth. We will attempt to understand why those who convicted Socrates thought he was corrupting young people. We will also consider what Socrates might have to teach us today.

PHIL 1905: Topics: Freshman Seminar: Comics as Art
A-F only, 3 credit(s), max credits 6; prereq freshman;
Instructor: Cook, Roy Thomas
Description: Comics were once thought to be appropriate only for children. Recently, however, telling a story by combining drawings and word balloons has acquired an unexpected (but not undeserved!) respectability: The Holocaust memoir Maus won a Pulitzer Prize; the graphic novel Watchmen appeared on the Guardian First Book Award. In this seminar, we will explore the idea that comics are as legitimate an art form as painting or sculpture. We will consider why comics received for: PHIL 3005V; Meets CLE req of Other

PHIL 3304: Law and Morality
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Bix, Brian H
Description: The course investigates the interactions of law and morality: e.g., whether there is a necessary connection between law and morality, whether there is a moral obligation to obey the law, whether law should enforce moral duties, and which moral values are or should be expressed in our criminal law, contract law.
Style: 50% Lecture, 50% Discussion.
Grading: 40% final exam, 60% reports/papers. for the course
Exam Format: closed book (no access to books or notes allowed) essay exam

PHIL 3607: Philosophy of Psychology
4 credit(s); prereq One course in philosophy or psychology;
Instructor: Owens, Joseph I
Description: Mental phenomena present the philosopher with a number of deep but inescapable challenges. We tend to suppose that we know what it is to have a mind, to have beliefs, desires, etc., All of this is surely amazing; indeed it verges on the outrageous. We admit to not knowing the makeup of the simplest structures, to not knowing how to explain the behavior of the simplest organisms--we leave such issues to scientific investigators--and at the same time we think we know how to explain the behavior of the most complex of all systems. We know how to do it, and we know what we are talking about when we
PHIL 3993 Directed Studies
1-3 credit(s); max credits 6, 6 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Students may contact the instructor or department for information.

PHIL 4010 Ancient Philosophers
3 credit(s), max credits 6; prereq 3001 or instr consent;
Instructor: Peterson, Sandra Lynne
Description: This course will study closely four dialogues of Plato's in which Socrates has a conversation with one or more distinctive interlocutors. The four dialogues the course will study are the Laches, the Protagoras, the Euthydemus and the Meno. All of these dialogues have interesting arguments, usually arguments that Socrates elicits from his interlocutors by questioning. Students will critically examine a number of these arguments and the role of each within its dialogue. The course will also make some reference to Plato's work, the Apology, Socrates' famous defense speech in court at the age of seventy as he is on trial for his life. A guiding project of the course will be to see whether or not the description that Socrates gives in the Apology of how he spent his life is an accurate description of Socrates' conversational behavior in the Laches, the Protagoras, the Euthydemus, and the Meno.
Style: 10% Lecture, 90% Discussion.
Grading: 10% quizzes, 25% attendance, 65% reflection paper.

PHIL 4330 Contemporary Moral Theories
3 credit(s); prereq 1003 or instr consent;
Instructor: STAFF
Description: Is it morally permissible to kill one person to save many others? How much can morality demand of us? What reasons do we have to develop our character? These are questions for ethical theory. Ethical theories aim to tell us what the correct moral judgments and principles are. Meta-ethical theories, on the other hand, examine the nature and status of the ethical claims made by ethical theories. Meta-ethical questions include: What is the meaning of moral terms such as "good" or "wrong" or "virtuous"? How do ethical judgments motivate us to act? Can moral or ethical judgments be true or false? In what sense are such judgments "objective" or "subjective"? In this course we will consider a variety of answers to these questions in our survey of the major theories and debates in contemporary (20th-century) ethics and meta-ethics. PLEASE NOTE: This course is not intended for people without previous coursework in Philosophy! This course is designed for graduate students and undergraduates with an interest in philosophy majors and minors. Our discussions in class will presume a certain level of philosophical background, practice, and ability. Many of the readings are very abstract and difficult, and people with little background in philosophy (and even those with a background in philosophy) will find them quite a struggle.

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 having nothing to do with the emotions. This course will investigate these and other controversies. The second half will be devoted to an in-depth analysis of a single work " Mussorgsky's Pictures at an Exhibition " which provides an interesting case study in regard to a variety of philosophically interesting questions about music. Technically, PHIL 3502 is a prerequisite, but will be waived for students with appropriate alternative background. The ability to read music is helpful but not essential.
Style: 100% Lecture.
Grading: 50% mid exam, 50% final exam.
Exam Format: essay

PHIL 5221 Philosophy of Logic
3 credit(s); prereq 5202 or instr consent;
Instructor: Hanson, William H
Description: The general theme 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 will 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 will also read and discuss a paper on the implications, if any, of Goedel's theorems for the philosophy of logic. 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 and Jeffrey, "Computability and Logic," THIRD EDITION, 1989, and several articles. The text and articles will be available online. We will use the third edition of the Boolos and Jeffrey text, rather than earlier or later editions, because it is pedagogically superior to the others.
Style: 80% Lecture, 40% Discussion.
Grading: 20% problem solving, 80% other evaluation. exams (including final)
Exam Format: problems to solve

PHIL 5221 Philosophy of Logic
3 credit(s); prereq 5202 or instr consent;
Instructor: Hanson, William H
Description: Phil 5221 will deal with some central topics in the philosophy of logic. It presupposes a knowledge of the basics of first-order logic, such as can ordinarily be gained by successfully completing Phil 5201 and 5202. The main topics to be considered are: 1. The ground of logic; 2. The scope of logic; 3. Logical pluralism. Under 1 we will consider the nature of logical consequence, and we'll ask what it is that distinguishes logical truths from other truths. Topics 2 and 3 consider extensions of, and alternatives to, classical first-order logic. Specifically, under 2 we'll ask whether certain extensions of first-order logic (e.g., second-order logic, the logic of pluralals) should be considered logically rather than some other kind of theory. Under 3 we'll first learn something about intuitionistic and relevance logics, and then ask whether such "logics" are genuine alternatives to classical logic. Readings will include papers by W.V. Quine, Lewis Carroll, Alfred Tarski, George Boolos, Michael Dummett, Graham Priest and others, all of which will be available online. There will be several short papers. No exams.
Style: 80% Lecture, 20% Discussion.
Grading: 100% reports/papers.
PHIL 5415 Philosophy of Law
3 credit(s); prereq 1003 or 1004 or 3302 or social science major or instr consent;
Instructor: Bis,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 wishing 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 5510 Philosophy of the Individual Arts
3 credit(s); prereq 3502; Credit will not be granted if credit has been received for: PHIL 4510;
Instructor: Kac,Michael B
Description: Student may contact the instructor or department for information.

PHIL 5606 Philosophy of Quantum Mechanics
3 credit(s);
Instructor: Hellman,Geoffrey
Description: Student may contact the instructor or department for information.

PHIL 5993 Directed Studies
1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

PHIL 8180 Seminar: Philosophy of Language
3 credit(s), max credits 6; prereq 4231 or instr consent;
Instructor: Owens,Joseph I
Description: Student may contact the instructor or department for information.

PHIL 8310 Seminar: Moral Philosophy
3 credit(s), max credits 9, 3 completions allowed; prereq 4310 or 4320 or 4330 or instr consent;
Instructor: Holtman,Sarah William
Description: Student may contact the instructor or department for information.

PHIL 8341 Seminar: History of Philosophy--Analytic
3 credit(s); prereq 4105 or instr consent;
Instructor: Friedman,James
Description: Student may contact the instructor or department for information.

PHIL 8342 Seminar: History of Philosophy--Philosophy of Mind
3 credit(s); prereq 4105 or instr consent;
Instructor: Bost,Jay
Description: Student may contact the instructor or department for information.

PHIL 8510 Philosophy of the Individual Arts
3 credit(s); prereq 3502; Credit will not be granted if credit has been received for: PHIL 4510;
Instructor: Kac,Michael B
Description: Student may contact the instructor or department for information.

PHIL 9041 Seminar: Philosophy of Science
3 credit(s); prereq 4105 or instr consent;
Instructor: Yalom,Carolyn
Description: Student may contact the instructor or department for information.

PHIL 9105 Seminar: Social and Political Philosophy
3 credit(s); prereq 5510 or 6010 or 5993;
Instructor: Ackert,Joshua
Description: Student may contact the instructor or department for information.

PHIL 9300 Seminar: Philosophy of Law
3 credit(s); prereq 5510 or 5606 or 6010 or 5993 or instr consent;
Instructor: Ackert,Joshua
Description: Student may contact the instructor or department for information.
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

OPT No Aud, 1 credit(s);
**Instructor:** Johnson, Matthew Lloyd  
**Description:** Fundamentals of racquetball, including equipment; safety and etiquette; terminology; game rules of singles, doubles, and cutthroat; grips; basic strategies; serves and shots.

OPT No Aud, 1 credit(s);
**Instructor:** Hoffman, Mitchell Lee  
**Description:** Fundamentals of racquetball, including equipment; safety and etiquette; terminology; game rules of singles, doubles, and cutthroat; grips; basic strategies; serves and shots.

OPT No Aud, 1 credit(s);
**Instructor:** Yarrow, Robert L  
**Description:** The judo class instructs students in the basic skills of throwing, stepping, rolling (matwork), choking and arm lock techniques, and falling skills. These are the basic skills used in contest judo, and also have personal defense application of a very realistic and practical nature. Students are also given an appreciation of the evolution of judo from Jiu-Jitsu, and they learn the fundamental rules and scoring of contest. Action videos are used both for instruction of techniques and application of contest. The principles of judo and its philosophy as they apply to daily life enhancement, are also covered.  
**Style:** 5% Lecture, 5% Discussion. Physical instruction of judo techniques and skill application.  
**Grading:** 15% mid exam, 20% final exam, 65% class participation.  
**Exam Format:** Matching, multiple choice, true/false

OPT No Aud, 1 credit(s);
**Instructor:** Crone, Tom  
**Description:** The racquetball course will introduce students to the rules and techniques of this game. Fundamental strokes, including forehands, backhands, volleys, lobs, overheads, and serves; introduction to singles and doubles play; terminology, rules, and etiquette.  
**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

OPT No Aud, 1 credit(s);
**Instructor:** Kneisl, Jerry  
**Description:** Fundamental strokes, including forehands, backhands, volleys, lobs, overheads, and serves; introduction to singles and doubles play; terminology, rules, and etiquette.  
**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

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.  
**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

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

OPT No Aud, 1 credit(s);
**Instructor:** Brandl, Mary Kathryn  
**Description:** Course consists of learning basic physical and psychological skills to help the student recognize and act in crisis and pre-crisis situations: to avoid or stop physical assault, harassment, irritating and/or dangerous situations and encounters. Physical skills include basic striking, kicking, shifting (learning to move out of the way), blocking, and specialized techniques for specific situations. Psychological skills include learning to analyze self-defense situations, i.e., what strengths does the student have, what vulnerabilities does his/her opponent have and what opportunities are there to apply those strengths and use those vulnerabilities. This includes developing an understanding of force, eye contact and strong body language, and basic verbal skills such as assertiveness. Class work will include drills in physical techniques to develop coordination and strength, practice time in hitting and kicking bags, many controlled situations with partners (including floor, weapon, and multiple attacker situations) to teach basic skills of analysis and application.  
**Style:** 10% Discussion.  
**Grading:** 50% final exam, 20% reports/papers, 30% class participation.
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 1074 Beginning Volleyball
OPT No Aud, 1 credit(s);
Instructor: Shingles, Kori Elizabeth
Description: Basic skills, team play, rules, officiating, and strategy.

PE 1075 Ice Hockey
OPT No Aud, 1 credit(s); prereq 1053 or equiv or instr consent;
Instructor: Fitzgerald, John S
Description: Offensive/defensive strategies/techniques, goal tending, scrimmage play. Students need their own equipment.

PE 1107 Intermediate Swimming
OPT No Aud, 1 credit(s); prereq 1007 or equiv, proficient ability to swim 100 meters or instr consent;
Instructor: Franklin, Ayanna N
Description: Intermediate swimming skills. Fundamentals of swimming and hydrodynamics.

PE 1125 Intermediate Handball
OPT No Aud, 1 credit(s); prereq 1029 or instr consent;
Instructor: Carlson, James Earl
Description: Student may contact the instructor or department for information.

PE 1133 Intermediate Foil Fencing

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: Hoffman, Mitchell Lee
Description: Safety, knots, equipment, techniques, and anchor systems used in climbing. Course includes all necessary equipment. Held at St. Paul Gym climbing wall.

PE 1072 Soccer
OPT No Aud, 1 credit(s);
Instructor: Adamcsek, Viktor Istvan
Description: Fundamentals of soccer including sporting behavior both on and off the field, game rules, soccer terminology, participation and competition drills, fundamental soccer skills, practical instruction in strategy.

PE 1084 Bowling
OPT No Aud, 1 credit(s);
Instructor: Schmid, Michael F
Description: Fundamentals, including stance, approach and delivery, scoring, bowling terminology, and etiquette. Every student is given personalized instruction on an individual basis each class session. Everyone will learn to throw a hook.

PE 1048 Bowling
OPT No Aud, 1 credit(s);
Instructor: Schmid, Michael F
Description: Fundamentals, including stance, approach and delivery, scoring, bowling terminology, and etiquette. Every student is given personalized instruction on an individual basis each class session. Everyone will learn to throw a hook.

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 1066 Intermediate Tae Kwon Do
OPT No Aud, 1 credit(s); prereq 1046, previous Tae Kwon Do experience (World Tae Kwon Do Federation sanctioned), basic white Tae Kwon Do uniform;
Instructor: Kim, Il Keun
Description: Continuation of 1046. Focuses on Olympic-style intermediate skills/techniques. Self-defense techniques for men/women.

PE 1205 Scuba and Skin Diving
OPT No Aud, 1 credit(s); prereq Ability to swim 400 yds comfortably or instr consent;
Instructor: Karl, Robert J
Description: This course is available to all students and prospective students (through CCE) at the University. The course consists of classroom instruction and practical pool work. SCUBA Certification is not included in the course. The third part necessary for certification (4-open water dives) can be arranged through the instructor at an additional charge. Students 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

PE 1262 Marathon Training
OPT No Aud, 3 credit(s); prereq No pre-existing medical condition that would prevent finishing a marathon, instr consent;
Instructor: Lundstrom, Christopher J
Description: Physical challenge achieved through physiological/psychological adaptation. Goal setting that fosters adaptation in many facets of life. Marathon history.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
PT 1002 Orientation to Physical Therapy
S-N only, 1 credit(s);
Instructor: Olson-Kellogg, Becky Jo
Description: This course is an introduction to the profession of Physical Therapy. The course is intended for undergraduate university students who are interested in pursuing Physical Therapy as a career, or who want to learn more about the field of Physical Therapy to assist them in making a career decision.

PT 6214 Clerkship II
A-F only, 2 credit(s); prereq Registered PT student;
Instructor: Lojovich, Jeanne Marie
Description: Student may contact the instructor or department for information.

PT 6216 Clerkship IV
A-F only, 1 credit(s); prereq Registered 2nd yr PT student;
Instructor: Lojovich, Jeanne Marie
Description: Student may contact the instructor or department for information.

PT 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 completion allowed;
prereq Registered PT student;
Instructor: Kimberley, PT, PhD, Teresa Jacobson
Description: Student may contact the instructor or department for information.

PT 6284 Musculoskeletal Rehabilitation II
A-F only, 4 credit(s); prereq Regis PT student;
Instructor: Anderson, Kathleen
Description: Student may contact the instructor or department for information.

PT 6287 Neurorehabilitation I
A-F only, 8 credit(s); prereq Regis PT student;
Instructor: Lautly Lynnette K
Description: Student may contact the instructor or department for information.

PT 6297 Clinical Internship III
S-N only, 10 credit(s); prereq Registered PT student;
Instructor: Lojovich, Jeanne Marie
Description: Student may contact the instructor or department for information.

PT 6298 Clinical Internship IV
S-N only, 10 credit(s); prereq Registered PT student;
Instructor: Lojovich, Jeanne Marie
Description: Student may contact the instructor or department for information.

PT 7001 Topics in Musculoskeletal PT
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
prereq Admitted in transitional doctor of physical therapy program;
Instructor: Anderson, Kathleen
Description: Student may contact the instructor or department for information.

PT 7003 Topics in Integumentary Physical Therapy
A-F only, 2 credit(s); prereq Admitted in transitional doctor of physical therapy program;
Instructor: Cole, Pamela S
Description: Student may contact the instructor or department for information.

PT 7005 Topics in Pediatric Physical Therapy
A-F only, 1 credit(s); prereq Admitted in transitional doctor of physical therapy program;
Instructor: Carey, James Robert
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar in Physical Therapy II
A-F only, 1 credit(s); prereq 8131, Grad PT major;
Instructor: Kimberley, PT, PhD, Teresa Jacobson
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar in Physical Therapy II
A-F only, 1 credit(s); prereq 8131, Grad PT major;
Instructor: Di Fabio, Richard P
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar in Physical Therapy II
A-F only, 1 credit(s); prereq 8131, Grad PT major;
Instructor: Thompson, PhD, LaDora V
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar in Physical Therapy II
A-F only, 1 credit(s); prereq 8131, Grad PT major;
Instructor: Ludewig, Paula M
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar in Physical Therapy II
A-F only, 1 credit(s); prereq 8131, Grad PT major;
Instructor: Lowe, Dawn Annette
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar in Physical Therapy II
A-F only, 1 credit(s); prereq 8131, Grad PT major;
Instructor: Kukulka, Carl G
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar in Physical Therapy II
A-F only, 1 credit(s); prereq 8131, Grad PT major;
Instructor: Kukulka, Carl G
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq Grad PT major;
Instructor: Snow, MD, PhD, LeAnn M
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq Grad PT major;
Instructor: Snow, MD, PhD, LeAnn M
Description: Student may contact the instructor or department for information.
for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;
Instructor: Kimberly,PT, PhD,Teresa Jacobson
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;
Instructor: Di Fabio, Richard P
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;
Instructor: Thompson PhD, LaDora V
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;
Instructor: Ludewig, Paula M
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;
Instructor: Lowe, Dawn Annette
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;
Instructor: Kukulka, Carl G
Description: Student may contact the instructor or department for information.

PT 8193 Research Problems in Physical Therapy
A-F only, 1-7 credit(s), max credits 7, 7 completions allowed; prereq Grad PT major;
Instructor: Nuckley PhD, David J
Description: Student may contact the instructor or department for information.

PHYS 1001W Energy and the Environment
4 credit(s); prereq 1 yr high school algebra; Meets CLE req of Environmental Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This course addresses current issues of the relationship between energy use and the environment by starting with the fundamental physics principles of force and energy, and demonstrating how these concepts apply to Electricity and Magnetism, Thermodynamics, Chemical Physics and Nuclear Power generation. These principles are applied to specific applications by examining topics such as power production, acid rain and fuel resources. The consequences of fundamental physics on public policy will also be discussed in this context. Math skills at the level of high school algebra are assumed. The accompanying laboratory is a series of short experiments which illustrate the concepts as they are presented in class.

PHYS 1011 Physical World
A-F only, 3 credit(s); prereq 1 yr high school algebra;
Instructor: Cassola, Robert L
Description: Without realizing it you probably come into contact with the subject matter of physics every day. In today’s paper, for example, you may read something about the “energy crisis.” Articles appear about radiation therapy of cancer using Cobalt-60 and about laser beams being reflected from the moon. Space flights are almost routinely observed on TV, and words like “g-forces,” “weightlessness,” “orbit” and “escape velocity” become part of our vocabulary. College students today discuss the merits of solar power as a future alternative energy source; concerned groups of citizens worry about the effect of radioactive waste from a proposed nuclear power plant. People who fish wonder if thermal pollution is something to worry about, and a politician happily reads a report about the decrease in radioactive fall-out since the moratorium on nuclear testing. These are all very topical items and are all connected with the science of physics. Most people see only these applications of physics because they are the spectacular uses, misuses, and detrimental side effects that are reported in the popular media. A reaction to science and scientists has resulted from our misusing the tools of science and causing grave damage to our environment and to ourselves. Too often, however, those who wish to reject science forget that it is ordinary people, ignorant in science, who make the decisions and cast the ballots that determine the ways this knowledge is used. More ignorance is not the answer. The science of physics makes continuing contributions to major areas of human endeavor and understanding that may not be in the popular spotlight. Although traditionally directed toward the pure sciences and technological applications, its impact is being felt in such areas as ecology, medicine, archaeology and physiology. Recent articles have even appeared on the physics of skiing, bicycling, and drag racing. The underlying purpose of this course is to provide you with a firm, elementary understanding of the principles of physics. The material covered in this course is fundamental and forms the basis for virtually all future courses in physics and engineering. It is hoped that as you proceed through this course, you will not only gain some facility in applying the concepts of physics to problems of practical interest, but that you will also gain an awareness of, and an appreciation for, the unifying principles on which physics is based.
Style: This is a printed correspondence section.
Grading: 40% mid exam, 30% final exam, 30% written homework.

PHYS 1101W Introductory College Physics I
4 credit(s); prereq High school algebra, plane geometry, trigonometry; primarily for students interested in technical areas. Credit will not be granted if credit received for: 1107, 1201W, 1301W, 1401V; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This is the first part of a course sequence designed to prepare you for work in your field by: having solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and 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. Phys 1101W will emphasize the dynamics approach to physics emphasizing the description of motion of interacting objects and the forces that they exert on each other. No previous physics knowledge is assumed, but it is assumed that you are able to do algebra, including solving quadratic and simultaneous equations, interpret simple graphs, basic geometry, especially the geometry of triangles; the use of sine, cosine, and tangent; and the Pythagorean Theorem. A laboratory requires you to apply both the concepts and problem solving skills taught in this course to the real world. It also emphasizes technical communications skills. A discussion section gives you the opportunity to discuss your conceptual understanding and problem solving skills while you practice solving problems with other students. The
laboratory and discussions sections emphasize collaborative problem solving as a powerful learning tool and as a preparation for work in your profession.

PHYS 1102W Introductory College Physics II
4 credit(s); prereq 1101W or 1107; primarily for students interested in technical areas; meets CLE req of Physical Science/Lab Core;
Instruction: Border, Pete Mac
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.
Exam Format:.

PHYS 1108 Introductory Physics Online II
4 credit(s); prereq 1101W or 1107; primarily for students interested in technical areas; meets CLE req of Physical Science/Lab Core;
Instruction: Border, Pete Mac
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policy, fee, and financial aid information. Phys 1108 is the second semester of the University of Minnesota's introductory algebra-based physics sequence, presented online. We will cover thermal physics, electricity and (a little) magnetism, waves, and some modern physics. Throughout the course the emphasis will be on understanding and problem-solving rather than mathematical rigor. Laboratories are a required part of the course.
Style: 100% Web Based
Grading: Weekly problem sets from the textbook (35%) -6 multipart labs, including data analysis activities and lab reports (20%) -Midcourse and final exams (45%)
Exam Format: Supervised, in-person (not online) exams

PHYS 1201W Introductory Physics for Biology and Pre-medicine I
5 credit(s); prereq Concurrent registration is required (or allowed) in Math 1271 or Concurrent registration is required (or allowed) in Math 1371 or Concurrent registration is required (or allowed) in Math 1571; Credit will not be granted if credit has been received for: PHYS 1301W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instruction: STAFF
Description: This is the first of a three semester introductory course in physics for students in sciences and engineering. 1301W/1302W, 2303 or 2503 is designed to prepare you for work in your field by: building a solid conceptual understanding of fundamental principles of physics, and their applications; applying those principles to new situations, using logical reasoning and quantitative problem-solving skills; learning to communicate technical information effectively. To achieve these goals, this course requires you to understand the material in depth. 1301W will emphasize the study of mechanical systems, beginning with the description of motion of interacting objects, the forces that they exert on each other and the quantities that are conserved in those interactions. A laboratory is included to allow you to apply physical principles to the real world in a carefully controlled environment, and will also emphasize technical communications skills. A discussion section will give you the opportunity to discuss your conceptual understanding and your problem solving skills, by practicing working problems with other students. This is a calculus-based course, and students will be expected to use the basic concepts of differential and integral calculus, as well as algebra and trigonometry.

PHYS 1202W Introductory Physics for Biology and Pre-medicine II
5 credit(s); prereq 1201W; Credit will not be granted if credit has been received for: PHYS 1302W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instruction: STAFF
Description: This is the continuation of physics 1201W designed primarily for students majoring in the biological sciences or preparing for medical school. This is not a survey course of all physics but requires an in-depth understanding of fundamental principles and their application. A course in calculus equivalent to Math 1272, 1272 or 1282 taken previously or simultaneously is required. Students should have a working knowledge of derivatives and integrals as well as all of the mathematics skills used in 1201W. The course emphasizes an understanding of the fundamental principles of physics and their use in solving quantitative problems of the type found in biological applications. The second semester involves the study of the optics, electrical circuits, the properties of the electric and magnetic force, and nuclear processes relevant to biological systems. A required laboratory illustrates the application of 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 the opportunity to discuss your conceptual understanding and your problem solving skills by practicing working problems with other students. The laboratory and discussions sections will emphasize collaborative problem solving as a powerful learning tool and as a preparation for work in your profession.
PHYS 2303 Physics III: Physics of Matter
4 credit(s); prereq 1301W, Concurrent registration is required (or allowed) in Math 1272H or Math 1372 or Math 1572; Credit will not be granted if credit has been received for: PHYS 1202W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This is the third of a 3 semester intro course in physics for students in science and engineering; 1302W emphasizes the application of the physical principles learned in 1301W to electrical and magnetic interactions. The course is designed to prepare you for work in your field by: having solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem-solving skills to new situations; and learning to effectively communicate technical information. To achieve these goals, this course requires you to understand the material in depth. Emphasis will be given to the application of physics principles to real-life situations, and will use problems designed to simulate such situations. This course assumes a good working knowledge of the concepts and skills in 1301W. Because of the nature of this material, this course will be more abstract and mathematical than 1301W. A lab is included to allow you to apply both the concepts and problem solving skills to the real world. It will also emphasize technical communications skills. A discussion section will give you the opportunity to discuss your conceptual understanding and practice your problem solving skills with other students.

PHYS 1402V Honors Physics II
4 credit(s); prereq honors student and permission of University Honors Program; Credit will not be granted if credit has been received for: PHYS 1202W; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This is the second of a three semester introductory course in physics for students in the IT Honors Program. It is designed to prepare you for work in your field by: having a solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. This course requires you to understand the material in depth; it will go at a faster pace than Physics 1202W and at a higher mathematical level. The emphasis will always be on the application of physics principles to interesting situations, and problems will be designed to simulate such situations. 1402V will emphasize the application of the principles learned in 1401V to the electromagnetic interaction. Fundamental ideas will be applied to complex systems using abstract concepts such as vector fields. Students should have the ability and desire to use mathematics not yet introduced in math class. A laboratory is included to allow you to apply physical principles to the real world in a carefully controlled environment, and will also emphasize technical communications skills. A discussion section will give you the opportunity to clarify your conceptual understanding, and practice your problem-solving skills, by practicing working problems with other students.

PHYS 2303 Physics III: Physics of Matter
4 credit(s); prereq 1302, [MATH 1272 or MATH 1372 or MATH 1572H], [MatSci or EE] student; Credit will not be granted if credit has been received for: PHYS 2403H;
Instructor: Ganz, Eric D
Description: This is the third and final semester of an introductory course in physics for students in sciences and engineering which began with Physics 1301W/1302W. Physics 2303 is a broad survey of physics topics which have been important in the 20th and early 21st century. The topics include thermodynamics, mechanical and electromagnetic waves, optics, nuclear physics, quantum theory, and applications of the quantum nature of solids. This course is taken primarily by MatSci, EE, and other students who plan to take only 3 semesters of physics. Physics majors and students wanting 4 semesters of physics or an emphasis on special relativity should take Phys 2503 instead.
Style: 75% Lecture, 10% Discussion, 15% Demonstration.
Grading: 33% final exam, 50% quizzes, 17% problem solving. Homework will be graded using WebAssign

PHYS 2311 Modern Physics
4 credit(s); prereq 1302 or 1402], Chem 1022, Math 2243;
Instructor: Cassola, Robert L
Description: The purpose of this course is to acquaint you with some of the principles by which the physical world operates, and to enable you to apply these principles to a number of different situations. It is hoped that, without a great deal of mathematical complexity, you will be able to see how these general principles extend to other fields. This course will stress being able to do things - simple problems, numerical estimates, and prediction of events. These skills only come with practice, so that, necessarily, this course is built around working problems.
Style: This is a printed correspondence section.
Grading: 40% mid exam, 40% final exam, 20% written homework. S/N students must earn at least 70 percent to receive a grade of S.

PHYS 2601 Quantum Physics
4 credit(s); prereq [2403H or 2503], [concurrent enrollment Math 2243 or Math 2373 or Math 2574H];
Instructor: Hanany, Shaul
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.

PHYS 2605 Quantum Physics Laboratory
3 credit(s); prereq concurrent enrollment 2601;
Instructor: Cronin-Hennessy, Daniel P
Description: This laboratory is designed to accompany Physics 2601. The laboratory includes a series of experiments that are part of the foundation of quantum physics. It emphasizes important laboratory skills such as defining a problem and measurement procedure, debugging equipment, and the statistical analysis of data. Laboratory reports emphasize in depth technical communication of measurement and analysis techniques motivated by a solid description of the physical principles involved. This laboratory will give experiences that depend on and motivate the theories discussed in Physics 2601.

PHYS 3071W Laboratory-Based Physics for Teachers
4 credit(s); prereq No IT credit, college algebra; designed for students intending to be education majors; Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: Olsen, Steven Robert
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 college course-oriented with the 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: Huang, Cheng-Cher
Description: This course is intended to provide an experience based introduction to a selection of fundamental physics concepts especially chosen to be useful for potential elementary school teachers. These fundamental concepts include the interaction between objects and the description of that interaction by energy, forces, and fields. These ideas will be applied to electricity and magnetism as well as optics and heat. The course is activity-based and collaboration-oriented with four major goals: (1) to help you construct a set of physics ideas that you can apply to explain phenomena that are intrinsically interesting at a level appropriate to an elementary school science curriculum; (2) to help you understand the process of doing science; (3) to give you practice and confidence in doing science, and (4) to link the development of the course material to your own learning. The teaching and learning strategies used in this course will be valuable and appropriate for use in your teaching career. No specific background in science or mathematics is assumed in this course.

PHYS 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 4051 are required to enter this course.

PHYS 4211 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: 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 to the interplay between theory and experiment. The knowledge and skills learned in Physics 4101 and 4201 are assumed. Mathematics beyond the prerequisite mathematics courses are developed as required. Topics include vibrational and electronic properties of crystals; diffraction of waves in solids and electron band structure. Other possible topics include optical properties, magnetic phenomena, and superconductivity; non-crystalline solids, such as glasses and polymers.
Style: 100% Lecture.
Grading: 50% final exam, 50% problem solving.
Exam Format: Problem solving

PHYS 4501 Experimental Project
1-5 credit(s), max credits 5, 1 completion allowed; prereq 4052, instr consent;
Instructor: STAFF
Description: This course is an independent experimental project designed by a student in collaboration with a faculty member.

PHYS 4511 Introduction to Nuclear and Particle Physics
3 credit(s); prereq 4101;
Instructor: Qian, Yongzhong
Description: This course is a survey of nuclear and particle physics for advanced undergraduate and beginning graduate students. It explores the common roots and tools of the nuclear (medium energy) and particle (high energy) fields. The main objective is to develop an understanding of the Standard Model of quarks, leptons and the fundamental interactions of the universe. Mathematical rigor is not an essential feature, but the ability to do calculations of particle and nuclear phenomena is an important goal. The knowledge and skills learned in Physics 1302W or 1402V as well as those from Physics 4101 are assumed. Specific topics include the techniques of particle and nuclear experiments, properties and simple models of nuclei, fundamental interactions and their mediators, quarks and leptons, symmetries and tests of conservation laws, indications of physics beyond the Standard Model, and future projects.

PHYS 4911 Introduction to Biopolymer Physics
3 credit(s); prereq [3203, 4203H, 2503] or Chem 3501 or instr consent; Credit will not be granted if credit has been received for: PHYS 5081;
Instructor: Noireaux, Vincent
Description: This course is a survey course in soft condensed matter physics emphasis on biological physics. It will explore the physical ideas involved in the experimental and theoretical understanding of biological and synthetic macromolecules and materials. This course is for advanced undergraduates and beginning graduate students in physics, other sciences, or engineering. The skills and knowledge from Physics 1301W/1302W/2503 or Physics 1201W/1202W are assumed. The fundamental ideas of probability and statistics will be used freely. Applications include the behavior of polymer chains including rubber and DNA, cell mechanics, molecular motors, and membrane mechanics.
Style: 90% Lecture, 10% Discussion.
Grading: 25% mid exam, 25% final exam, 50% written homework.

PHYS 4960H Honors Seminar
PHYS 8200 Seminar: Cosmology and High Energy Astrophysics  
S-N only, 1 credit(s), max credits 6, 6 completions allowed;  
prereq instr consent;  
Instructor: Olive, Keith A  
Description: Student may contact the instructor or department for information.

PHYS 8311 Biological Physics of Single Molecules  
3 credit(s); prereq ([5201 or Chen 4707], 5011) or instr consent;  
Instructor: Mueller, Joachim  
Description: Student may contact the instructor or department for information.

PHYS 8611 Cosmic Ray and Space Physics  
3 credit(s); prereq 5812 or instr consent;  
Instructor: Lysak, Robert L  
Description: Student may contact the instructor or department for information.

PHYS 5002 Quantum Mechanics II  
4 credit(s); prereq 5001 or equiv;  
Instructor: Mandic, Vuk  
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 completions 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: Zudov, Michael  
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: Pelosi, Marco  
Description: Student may contact the instructor or department for information.

PHSL 3051 Human Physiology  
4 credit(s); prereq [BIOL 1009 or 1 yr college biol], 1 yr college chem;  
Instructor: Anderson, Lisa Carney  
Description: Human Physiology is a 4 credit class designed for science majors and pre-allied health sciences majors. This course covers basic science principles of cell transport, cell signaling and major organ systems (nervous, muscle, circulation, respiration, endocrine, renal, gastrointestinal, energy metabolism). Preparation in basic chemistry (two semesters) and biology (one semester) is strongly recommended. Three lecture sessions and one two-hour lab per week.

PHSL 3095 Problems in Physiology  
1-5 credit(s), max credits 20, 20 completions allowed;  
prereq...
PHSL 4095 Problems in Physiology
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 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 in class 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% final exam participation.

PHSL 5094 Research in Physiology
1-5 credit(s), max credits 20, 20 completions 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 completions 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 completions 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 completions allowed; prereq instr consent;
Instructor: Katz, Stephen A
Description: Student may contact the instructor or department for information.

PHSL 5010 Human Physiology
5 credit(s); prereq Grad student;
Instructor: Wangensteen, Douglas
Description: This course is for physical therapy and graduate students and is taught concurrently with the physiology course for first year medical students (PHSL 6101). Students should be registered in a degree-granting graduate program. The course is an advanced survey of human physiology. Topics presented are cardiovascular, respiratory, gastrointestinal, renal, muscle and exercise physiology. Lectures, demonstration/lab sessions, written assignments and exams are the same for students in both PHSL 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 the first week in January and ends the first week in May. For a lecture and demonstration/lab schedule contact the course director at wange001@umn.edu.
Style: 90% Lecture, 5% Laboratory, 5% Demonstration.
Grading: 25% mid exam, 38% final exam, 25% quizzes, 12% written homework.

PHSL 5116 Advanced Clinical Physiology 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 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 PhD, 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.

Plant Biological Sciences
250 Biological Sciences

PBS 8123 Research Ethics in the Plant and Environmental Sciences
S-N only, 0.5 credit(s); prereq Grad student in [applied plant sciences or plant pathology or plant biological sciences or soil science];
Instructor: Cohen, Jerry D
Description: Student may contact the instructor or department for information.

PBS 8900 Seminar
S-N only, 1-2 credit(s), max credits 4, 4 completions allowed;
PBIO 1212 Plants and Society
3 credit(s); prereq Intended for non-biological sciences majors; Meets CLE req of Environment Theme;
Instructor: Couch,Brett Charles
Description: The importance of plants to humans may seem ridiculously obvious. A visit to the grocery store will demonstrate the diversity human uses for plants: you can use the plants as gasoline containing ethanol made from corn, the parking lot has decorative trees, wood was used in the construction of the building, you pass a display of house plants and cut flowers, you can buy a wide variety of edible plants or plant products, the pharmacy dispenses drugs derived from plants, the cashier is likely wearing clothes made from cotton and asks you if you would like a paper bag, finally you pay for your purchase with currency made from cotton and linen. What is not as obvious is how human interaction with plants has profoundly affected human societies, how human interactions with plants have affected the environment and how technology has shaped human interaction with plants. Technology has both facilitated and shaped the interaction between humans and plants. In turn, the altered interaction between humans and plants has had dramatic and often unexpected consequences for societies and the environment. Consider two examples: yams and corn. The wild Mexican yam, Dioscorea composita, has had a profound effect on modern North American society through its use in birth control pills. The wild yam is the source of the chemical diosgenin that is similar in structure to human hormone progesterone. The first synthetic birth control pills contained progesterone produced from diosgenin from yams. Identification of diosgenin from yams and the production of a usable drug involved the disciplines of chemistry, biology and medicine. On the surface, this seems to be just another example of a plant derived drug, however, take a moment to think about the dramatic effect the birth control pill has had on modern North American society. What would your life be like today without birth control pills? Corn has also had a dramatic effect on North American society but has had a more visible impact on North American geography and the environment. Corn (maize) was domesticated in Mexico and was an important crop for ancient civilizations; the Aztecs even had a corn god! Humans have distributed corn around the world, removed other plants from vast areas of the globe and reshaped the landscape in order to grow corn. Consider what Minnesota would look like without corn. The first aim of this class is to introduce you to the wide variety of plants used by humans and the ways in which they are used. The second aim is for you to develop an appreciation of the importance of plants to humans; the dramatic impact plants have had on human society and the technologies important for utilization of plants. The third aim is to appreciate the continuing importance of preservation of plant diversity to humans. Style: 78% Lecture, 21% Demonstration. The "lecture" will include discussion, short non-graded in class exercises, activities as well as traditional lectures. Grading: 30% mid exam, 15% final exam, 20% reports/papers, 20% special projects, 10% quizzes, 5% class participation. Exam Format: Exams will consist of a mixture of multiple choice, matching exercises, diagram or figure labeling, short answer and short essay questions. No aids (calculators, notes or texts) are permitted during exams. Students will be responsible for material

PBIO 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:
PBIO 4811;
Instructor: Weible,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

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 synthesis and functions of natural products such as lignin, flavonoids, and alkaloids. Pre-requisites for this course are a background in general biology and at least one semester of organic chemistry. Courses in plant biology or biochemistry are helpful but not essential. Grades are determined by essay type exams and analysis of papers from the scientific literature. Style: 70% Lecture, 30% Discussion. Grading: 30% mid exam, 25% final exam, 20% reports/papers, 10% special projects, 10% in-class presentation, 5% problem solving. Exam Format: short answers, essay

PBIO 4793W Directed Studies: Writing Intensive
S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent ; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description:

PBIO 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 4, 7 completions allowed;
prereq instr consent , dept consent ; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description:

PBIO 4993 Directed Studies
S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
prereq instr consent ; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Contract between student and advisor required, plus department approval. Credits arranged.

PBIO 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed;
prereq instr consent ;
Instructor: Olszewski,Neil E
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research

Instructor: Anderson,Neil O.
Description: Student may contact the instructor or department for information.

PBS 8910 Journal Club
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Samac,Deborah A
Description: Student may contact the instructor or department for information.
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent;
Instructor: Weiblen, George 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 completions allowed; prereq instr consent;
Instructor: Gleason, 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 completions 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 completions 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 completions allowed; prereq instr consent;
Instructor: Schmitt, Imke
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 completions allowed; prereq instr consent;
Instructor: Keleher, 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 completions 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 completions allowed; prereq instr consent;
Instructor: Grant, Steve
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 completions allowed; prereq instr consent;
Instructor: Wick, Susan 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 completions allowed; prereq instr consent;
Instructor: Brambl, Robert Morgan
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; prereq instr consent;
Instructor: Silflow, 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 completions 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 completions 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 completions allowed; prereq instr consent;
Instructor: VandenBosch, Kathryn A
Description: Student may contact the instructor or department for information.

PBIO 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 completions 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 completions allowed; prereq instr consent;
Instructor: Glazebrook, 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 completions allowed; prereq instr consent;
Instructor: Katagiri, Fumiaki
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 completions allowed; prereq instr consent;
Instructor: Schmitt, Imke
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 completions allowed; prereq instr consent;
Instructor: Hegeman, Adrian D
Description: Student may contact the instructor or department for information.

PBIO 5514 Plant Molecular Genetics and Development
3 credit(s); prereq BIOC 3021 or BIOL 3021 or BIOL 4003 or BIOC 4332 or equiv
Credit will not be granted if credit has been received for PBio 5414;
Instructor: Gibson, Sue

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
**Description:** Student may contact the instructor or department for information.

**PLPA 5960 Special Topics**
1-3 credit(s), max credits 18, 6 completions allowed; prereq Plant biology course;  
Instructor: Gleason, Florence K  
**Description:** Student may contact the instructor or department for information.

**PLPA 5960 Special Topics**
1-3 credit(s), max credits 18, 6 completions allowed; prereq Plant biology course;  
Instructor: Young, Nevin Dale  
**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, 5% Discussion, 50% Laboratory, 3% Small Group Activities.  
**Grading:** 30% mid exam, 25% final exam, 5% quizzes, 4% attendance, 35% 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:** 40% mid exam, 10% special projects, 10% written homework, 40% laboratory evaluation.  
**Exam Format:** Short answer, Short essay

**PLPA 3090 Research in Plant Pathology**
1-4 credit(s), max credits 4, 1 completion allowed;  
Instructor: STAFF  
**Description:** Assignment of a special problem to undergraduates desiring an opportunity for independent research in plant pathology. The student determines the problem.  
**Style:** 100% Laboratory.  
**Grading:** 100% laboratory evaluation.

**PLPA 4096 Professional Experience Program: Internship**
S-N only, 1-3 credit(s), max credits 6, 6 completions allowed; prereq COAFES undergrad, complete internship contract available in COAFES Career Services before registering; UC only;  
Instructor: STAFF  
**Description:** Supervised practicum professional experience in plant pathology. Practicum may be completed in government, higher education or private industry setting. Directed toward senior undergraduates.  
**Grading:** 100% other evaluation. Job performance, self-evaluation

**PLPA 5003 Diseases of Forest and Shade Trees**
3 credit(s);  
Instructor: Blanchette, Robert A  
**Description:** This course provides an overview of tree diseases in urban and forested areas. It covers diseases that have had significant impact on society, such as Dutch elm disease, oak wilt, chestnut blight, white pine blister rust, etc., as well as cankers, leaf diseases, root rot and other tree problems. A laboratory session each week enables students to get hands-on experience identifying disease agents, examining symptoms and learning appropriate control procedures. Emphasis will also be placed on ecological processes, biological and cultural control and host-parasite interactions. This course should be of value to anyone interested in biological sciences, natural resources and ecology. It is an essential class for individuals that will have a career in natural resources, but should also be useful to those interested in maintaining healthy trees at home, in urban areas or woodlands.  
**Style:** 50% Lecture, 20% Discussion, 30% Laboratory.  
**Grading:** 40% mid exam, 10% special projects, 10% written homework, 40% laboratory evaluation.  
**Exam Format:** Short answer, Short essay

**PLPA 5090 Issues in Plant Pathology**
1-4 credit(s), max credits 4, 1 completion allowed;  
Instructor: STAFF  
**Description:** Current topics and research in plant pathology. Directed at undergraduates (junior and senior) as well as graduate students. Consult Class Schedule or department for current offering.  
**Style:** 50% Lecture, 50% Discussion.  
**Grading:** 100% special projects. depends on topic and instructor

**PLPA 5103 Plant-Microbe Interactions**
3 credit(s);  
Instructor: Braden, James M  
**Description:** Students may contact the instructor or department for information.

**PLPA 5300 Current Topics in Molecular Plant Pathology**
S-N only, 1 credit(s), max credits 2; prereq [BioC 4125, course in [plant pathology or microbiology], course in genetics, [lab in [molecular biology, Biotechnology] or equivalent]] or instr consent;  
Instructor: Braden, James M  
**Description:** Students may contact the instructor or department for information.

**PLPA 5999 Special Workshop in Plant Pathology**
1-4 credit(s), max credits 4, 1 completion allowed;  
Instructor: STAFF  
**Description:** Special workshops involving current issues and/or
techniques (experimental and laboratory) in plant pathology. Directed towards senior undergraduates and graduate students. Style: Depends on the nature of the workshop experience. Grading: 100% special projects. Depends on the nature of the workshop experience.

**PLPA 8101 Causal Organisms of Plant Disease**
4 credit(s); prereq 5201 or equiv;
Instructor: Samac, Deborah A
Description: Student may contact the instructor or department for information.

**PLPA 8103 Plant-Microbe Interactions**
3 credit(s); prereq Intro course in biochem or plant physiology or equiv;
Instructor: Bradeen, James M

**PLPA 8123 Research Ethics in Plant and Environmental Sciences**
S-N only, 0.5 credit(s); prereq Enrolled in a plant/environmental grad research prog; Credit will not be granted if credit has been received for: APSC 8123;
Instructor: Anderson, James Allan
Description: Student may contact the instructor or department for information.

**PLPA 8200 Seminar**
A-F only, 1 credit(s);
Instructor: Bradeen, James M
Description: Student may contact the instructor or department for information.

---

**Polish**

**205 Folwell Hall**

**PLSH 3002 Intermediate Polish**
5 credit(s); prereq 3001 or equiv; Credit will not be granted if credit has been received for: PLSH 4104;
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

**PLSH 4104 Intermediate Polish**
3 credit(s); prereq 4103, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: PLSH 3002;
Instructor: Polakiewicz, Leonard Anthony
Description: Student may contact the instructor or department for information.

---

**Political Science**

1414 Social Sciences Tower

**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 International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Redix, Erik M
Description: Student may contact the instructor or department for information.

**POL 1054 Repression and Democracy Around the World**
4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;
Instructor: Samuels, David Julian
Description: In this course we focus on the sources of politics around the world: political institutions, identities, and interests. Institutions help explain how political order is established and how power is distributed within a country. Thus we explore the differences between democracies and dictatorships, ask where democracy comes from, why some countries are more or less likely to be democratic, and why democracy sometimes breaks down into dictatorship. Examples explored include the UK, Nazi Germany, and contemporary China. Political institutions mediate the way in which political identities and interests gain representation in the formal realm of politics. We thus explore how government institutions shape the nature of political representation around the world, comparing different forms of government against each other. Political identity is the raw material from which individuals and groups construct their political interests. We explore various forms of political identity, including class, race and ethnicity, religion, and gender - and consider the extent to which these different forms of political identity shape key outcomes, such as civil war and social-movement mobilization. Political interests encompass what people want to get out of politics. We look first at peaceful forms of engagement such as social movements and political parties, and then consider violent forms of political mobilization - civil war or a "clash of civilizations" - looking at the relationship between identities and interests as a source of conflict. We then ask two questions related to political economy: "Why are some countries rich and others poor?" taking a close look at the case of China, and "Why do some governments tax their citizens a greater deal more than others," comparing "social welfare" states in Europe against more laissez-faire countries such as the USA or Japan. The course provides an integrated approach to understanding comparative politics. It uses critical cases from around the world to help students hone their skills at recognizing and building their own arguments - how to formulate a thesis, connect statements logically, determine whether evidence is confirmatory or contradictory, and bring everything together - skills that can be applied in upper-division classes and in many careers.
Style: 60% Lecture, 25% Discussion, 15% Small Group Activities.
Grading: 30% mid exam, 30% final exam, 25% reports/papers, 15% written homework. There is one five-page paper, and ten short assignments
Exam Format: Blue Book: short and long answers

**POL 1201 Political Ideas and Ideologies**
4 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;
Instructor: Tronto, Joan C
Description: This semester, we shall focus on one basic question: what is “the promise of politics?” In the Western tradition, political theorists give a variety of answers to this question. Some argue that politics is about freedom, justice, power and conflict, human liberation, among other possibilities. Others find politics unsatisfying, as a realm in which people are deceived by coercion or misguided concerns. We shall explore some of these answers. At the same time, we will also work on

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
reading and interpreting complex texts and on writing about abstract ideas.

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 25% final exam, 70% reports/papers, 5% attendance. Students may receive a better grade if their work improves over the course of the semester.

**Exam Format:** Final exam questions will be distributed in advance.

**POL 3070 Faculty-Supervised Individual Field Work**

A-F only, 1-3 credit(s), max credits 13, 1 completion 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 3080 Faculty-Supervised Individual Internships**

A-F only, 3-13 credit(s), max credits 15, 3 completions allowed; prereq instr consent, dept consent;

**Instructor:** Soper, Paul W

**Description:** Students working in political or governmental internships may receive credit for academic work completed in association with their internship work. Students may receive 1 credit for every 3 hours (per week) of internship work. Academic work increases with increased hours worked. Assignments will include: weekly journal, 5-7 page essay, 10 page research paper. Acceptable internships include: US Congress, MN state legislature, federal, state, and local Gov't agencies, as well as political parties, campaign organizations, and non-governmental advocacy groups. To enroll in this course, students must first arrange their internship, and then contact the instructor before the semester begins. Students who do not contact the instructor before the end of the first week of the semester will NOT be enrolled in this course.

**Style:** Fieldwork/Participant-observation

**Grading:** 100% reports/papers, 30% reflection paper, 10% class participation.

**POL 3085 Quantitative Analysis in Political Science**

A-F only, 4 credit(s); prereq 9 cr social sciences recommended; Meets CLE req of Mathematical Thinking Core;

**Instructor:** Trier, Shawn A

**Description:** This course serves as an upper-level undergraduate introduction to how political scientists conduct empirical research to study political behavior and institutions. The objective of the course is to teach students how to interpret political phenomena from a systematic and analytical perspective. We consider issues of research design, hypothesis formulation, as well as study basic statistical techniques and analyze political science data. After completion of the course, students will be able to interpret data analyses presented in newspapers, magazines and basic government and academic studies. Students will also be prepared to conduct an empirical senior paper or honors thesis.

**Grading:** 70% Lecture, 30% Discussion.

**POL 3252 Renaissance, Reformation, and Revolution: Early Modern Political Thought**

3-4 credit(s), max credits 4, 1 completion allowed; prereq credit will not be granted if credit received for: 5252; Meets CLE req of Citizenship/Publ Ethics Theme;

**Instructor:** Luxon, Nancy

**Description:** This course will concentrate on those political theorists writing in a period defined by the gradual emergence of the sovereign state, by intense religious conflict, and by transformative discoveries in mathematics and science. These changes to the political, religious, and scientific spheres posed extraordinary challenges to usual methods of conceiving of political order and governance. Each of the thinkers we will read this semester offers a different response to the perceived fragility of trust that resulted from the intense political and religious turmoil of the mid-16th to the late 18th centuries. Politically, in seeking stable foundations for governance, each theorist speaks to the paradoxical relationship between liberty and authority and its consequences for political obligation. Each seeks a different set of institutions and relationships by which political authority can secure the liberty, however broadly or narrowly defined, of citizens. Yet, even as political duties and privileges become more widely extended and inclusive, their terms are often ones of exclusion: exclusion of women, of children, of the politically immature, of the uneducated, of the ignoble. Ethically, each thinker advances a different psychological and educational project to prepare individuals for their political engagements and responsibilities. In response to the fractured social and religious relationships of the time, each innovates a new picture of human reflection and thought, and seeks to understand how humans ought to act and to encourage humans to contribute differently to their political communities. Philosophically, each thinker differently diagnoses the demands of ?nature? or necessity, and the potential offered by ?artificial? constraints or society. With the invention of the scientific experiment and new modes of scientific investigation, these thinkers ask how the tools of scientific inquiry might be adapted for political inquiry. Debate emerges over whether ?nature? is a force to be feared, managed, and tamed or whether it is a site of childish innocence and exuberance.

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 60% reports/papers, 30% reflection paper, 10% class participation.

**POL 3310H Topics in American Politics: Women in U.S. Congress**

3 credit(s);

**Instructor:** Pearson, Kathryn Lynn

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

**POL 3410 Topics in Comparative Politics: Islam and Politics**

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

**Instructor:** Collins, Kathleen A

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

**POL 3440 Topics in Comparative Politics: Politics of Globalization**

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

**Instructor:** Ansell, Benjamin William

**Description:** This course examines the impact of the global economy on the United States and other countries. The current financial crisis, the debate over immigration, the rising strength of the US dollar, and the cheap cost of iPods are all related to the way in which politicians and voters make decisions about how to deal with the international economy. In this class we study these political decisions in depth. Along the way we’ll answer a host of critical questions. Why was there a massive housing bubble and collapse? Why did the US government fail to develop a ‘comprehensive immigration policy’? Who benefits from NAFTA and other trade deals? How will the rise of China and India affect US businesses? How might global warming or terrorism affect the markets? We begin the course by tracing the economic history of the last and current century before looking in turn at three main areas: trade, finance, and immigration. The class has one midterm (33%) and a final exam (67%).

**Grading:** 70% Lecture, 30% Discussion.

**Exam Format:** Final exam questions will be distributed in the course of the semester.

**POL 3477 Political Development**

3-4 credit(s), max credits 4, 1 completion allowed; prereq 1054 or instr consent; Meets CLE req of Social Science Core;

**Instructor:** Caraway, Teri L.

**Description:** How can the vast disparities of wealth between countries be explained? Why have some countries in the post-colonial world, in particular those of East Asia, experienced stunning economic growth, while those in others parts of the world been stuck in a development rut? This course will explore contending answers to these difficult but important questions. We will do so through discussions of different explanations of...
Development and underdevelopment, examining these issues concretely in several countries, and discussing contemporary "hot topics" such as micro-credit, AIDS, and the resource curse. Style: 45% Film/Video, 20% Discussion, 20% Small Group Activities.

Grading: 20% midterm 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: There will be multiple choice and short answer questions. The exams will focus on topics not covered in the short papers, so collectively the exams and the essays function as four midterms. The final exam is not cumulative.

POL 3767 Political Psychology of Elite Behavior
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme

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% midterm exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: Short answer and medium length essay

POL 4403 Comparative Constitutionalism
3 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core;

Instructor: Duvall, Raymond D
Description: This course is organized in four units: The first unit, addressed in weeks 1 to 4, concerns the question, what distinguishes international from domestic politics? For that, we focus on the anarchic context of international politics to examine how the absence of authority and rule above states shapes insecurities and struggles for power. The second unit (weeks 5-8) focuses on how states play out the implications of the anarchic context in their political interactions of security, violence, and war. In this unit we include attention to the contemporary international politics of 'terrorism'. Can international politics foster stable, peaceful cooperation is the concern of the third unit (weeks 9-11). Here we ask whether and in what senses one can appropriately speak of an international community and international law. We conclude the course (weeks 12-14) with a unit on whether and how the realm of international politics is (or might be) being transformed into a realm of global and local politics. What is the significance of globalization and localized political movements for international politics? 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 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 distinctive and unique accounts of why international relations take the form that they do, but also distinct guidance about what international political activity should be. Therefore, we investigate both the explanatory insights and the practical and 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, such as the changing security dynamics in the Middle East and Southwest Asia, whether a war on terrorism can be won, how the proliferation of nuclear weapons and other 'weapons of mass destruction' affects international stability or instability, the extent to which cooperation on global climate change, human rights, or poverty alleviation is possible, and in what ways the functioning of the global economy shapes the terms and conditions of international politics.

Style: 50% Lecture, 10% Film/Video, 30% Discussion, 5% Small Group Activities, 5% Guest Speakers. Students do a few in-class writing assignments.
Grading: 30% final exam, 55% reports/papers, 15% quizzes.

Exam Format: Take-home, essay format

POL 4210 Topics in Political Theory: Women and Gender and Political Thought
A-F only, 3 credit(s), max credits 6;

Instructor: Tronto, Joan C
Description: Political theorists generally believed that women had no place in Western political thought and that gender issues were irrelevant to the great tradition of political theory until feminist theorists began to look more closely at the tradition. It is now clear that a variety of important political ideas in the Western intellectual tradition are constructed upon certain views of women and men, gender, the family, and assumptions about the relationship of public and private life. Rather than being peripheral to the study of political thought, these ideas turn out to be fundamental in shaping the ways that theorists have viewed political possibilities. This course focuses on selected political theorists and how their views of women, of gender, of the family, and of the relationship between public and private life are integral to their political theories. Rarely, however, will this task be simple and straightforward. As a result, a second set of issues will be of primary concern to us. One of the key tasks of the semester will be to consider varying interpretations of theorists' ideas, and to become familiar with and capable of comparing various interpretations of a theorist's ideas and arriving at some judgment about the value of competing interpretations. Given the complexity of this task, this course will not attempt to be comprehensive, but will focus on a pair of ancient writers (Plato and Aristotle), a pair of eighteenth century writers (Wollstonecraft and Rousseau), a pair of nineteenth century writers (Marx and J. S. Mill), and a pair of early twentieth century writers (Freud and de Beauvoir).

Style: 80% Lecture, 20% Discussion, 20% Small Group Activities.
Grading: 25% final exam, 65% reports/papers, 10% class participation.
Exam Format: Take home final

POL 3835 International Relations
3 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Social Science Core;

Instructor: Duval, Raymond D
Description: This course is organized in four units: The first unit, addressed in weeks 1 to 4, concerns the question, what distinguishes international from domestic politics? For that, we focus on the anarchic context of international politics to examine how the absence of authority and rule above states shapes insecurities and struggles for power. The second unit (weeks 5-8) focuses on how states play out the implications of the anarchic context in their political interactions of security, violence, and war. In this unit we include attention to the contemporary international politics of 'terrorism'. Can international politics foster stable, peaceful cooperation is the concern of the third unit (weeks 9-11). Here we ask whether and in what senses one can appropriately speak of an international community and international law. We conclude the course (weeks 12-14) with a unit on whether and how the realm of international politics is (or might be) being transformed into a realm of global and local politics. What is the significance of globalization and localized political movements for international politics? 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 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 distinctive and unique accounts of why international relations take the form that they do, but also distinct guidance about what international political activity should be. Therefore, we investigate both the explanatory insights and the practical and 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, such as the changing security dynamics in the Middle East and Southwest Asia, whether a war on terrorism can be won, how the proliferation of nuclear weapons and other 'weapons of mass destruction' affects international stability or instability, the extent to which cooperation on global climate change, human rights, or poverty alleviation is possible, and in what ways the functioning of the global economy shapes the terms and conditions of international politics.

Style: 45% Lecture, 15% Film/Video, 20% Discussion, 20% Style.
Grading: 30% final exam, 55% reports/papers, 15% quizzes.

Exam Format: Two analytical papers, six pages each. Each worth 30% of total grade, but lower grade is reduced to count only 25% (for a total of 55% for the two papers)
advanced or impeded equality in these four polities. The course is writing intensive and offers senior paper credit for Poli Sci majors (though the course is open to non-majors). Crafting a written, evidence-based argument that speaks to broader debates about the origins, nature and/or implications of political decisions and outcomes is central to Political Science. To hone this skill, all students enrolled in this course pursue independent research in order to produce a final paper at least 15 pages in length. Research and writing tutorials are integrated into the first ten weeks of the course, as are set deadlines for submission of paper topics, bibliographies, thesis statements and outlines, and a complete rough draft.

Style: 65% Lecture, 25% Discussion, 10% Small Group Activities.
Grading: 40% mid exam, 50% reports/papers, 10% class participation.
Exam Format: IDs and essays

POL 4410 Topics in Comparative Politics: Politics of Family, Sex, and Child
3 credit(s), max credits 6;
Instructor: Kelliherr, Daniel R
Description: If you take this course you’ll confront contemporary fights over family, sex, and children. Here are the big questions: (1) Who controls sex? We’ll look at power in sexual relationships, sexual freedom & the state, and sexual elements in political ideologies. (2) Who should be allowed to make a family? We’ll do same-sex marriage, polygamy, and teenage childbearing. (3) What happens to children? We’ll look at countries with strong pro-child policies, but also at the dark side? child soldiers, child prostitutes, and child poverty. (4) What are the odds that your family will survive? Time to face up to financial crisis, bankruptcy, and divorce, and see the effects of taxation, social support for families, childcare, and family medical leave. (5) Do politicians care? We’ll investigate families & elections, plus how political campaigns manipulate images of families for their own ends. Got more questions about the class? Just ask me: kelliherr@umn.edu
Style: 60% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities.
Grading: 50% reports/papers, 25% quizzes, 25% class participation.

POL 4410 Topics in Comparative Politics: U.S.-Latin American Relations
3 credit(s), max credits 6;
Instructor: Samuels, David Julian
Description: In the first part of this course we explore the historical origin of Latin American relations, comparing how different political science perspectives on US foreign policy explain the emergence of the US as the dominant player in the hemisphere. In the second part of the course we explore a series of contemporary issues, using the same analytical framework. These issues include immigration, trade policy, relations with Cuba, the drug war, and relations with Venezuela.
Style: 50% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 5% Guest Speakers.
Grading: 25% mid exam, 25% final exam, 30% reports/papers, 20% written homework.
Exam Format: blue-book; short answers and longer essays

POL 4410 Topics in Comparative Politics: Law & (In)Justice in Latin America
3 credit(s), max credits 6;
Instructor: Hilbink, Lisa
Description: Although democracy is the dominant form of government in Latin America today, most Latin American countries still suffer from a weak rule of law. Across the region, free and fair elections are held on a regular basis and few formal barriers to participation exist, but most countries are still a long way from offering full citizenship rights for all. Even in some of the largest and most economically developed cases, governments are often ineffective at providing basic rights protection, and state officials can abuse their power with impunity. Legal and judicial institutions are often partisan, corrupt, and/or inaccessible, leaving average citizens with no real recourse when their rights are violated. This course will examine, from various angles, how law and justice function in contemporary Latin America, highlighting similarities and differences within and between countries and issue areas. Students will reflect on and debate the causes behind the varied outcomes, as well as the effectiveness, actual and potential, of the different reform efforts that have been underway in the region since the 1980s. Specific topics to be addressed are transitional justice, judicial review, judicial independence, access to justice, criminal justice (including police, courts, and prisons), corruption, and non-state alternatives. Special attention will be paid to issues of race/ethnicity, class, and gender.
Style: 50% Lecture, 10% Film/Video, 20% Discussion, 15% Small Group Activities, 5% Guest Speakers.
Grading: 25% mid exam, 50% reports/papers, 25% class participation.
Exam Format: Essay
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: 30% mid exam, 30% final exam, 30% reports/papers,  
10% class participation.  
Exam Format: Exam -- Hypothetical Questions

POL 4737W American Political Parties  
4 credit(s); prereq 1001 or equiv or instr consent ; Credit will not be granted if credit has been received for: POL 5737;  
Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;  
Instructor: Goren,Paul Nurullah  
Description: Political parties are the lifeblood of American politics. This course will examine the role parties play in the U.S.  
political system. Specifically, we will examine: (1) why political parties exist; (2) what the parties stand for and how that has  
changed over time; (3) what role they play in campaigns and elections; (4) the social bases of partisan identification; (5) how  
partisan ties shape citizens perceptions, judgments, and voting decisions; (6) how the parties behave in government; and (7)  
why there are no major third parties in the U.S.

POL 4766 American Political Culture and Values  
3-4 credit(s), max credits 4, 1 completion allowed; prereq  
1001 or equiv or non-pol sci grad major or instr consent;  
Meets CLE req of Citizenship/Publ Ethics Theme;  
Instructor: Rahn,Wendy Marie  
Description: Many foreign observers of American politics have emphasized the unique qualities of American democracy. The  
?exceptionalism? of American politics is traced to different institutions, historical experiences, values, and ?habits of the  
heart? that distinguish the U.S. from other contemporary democratic countries. One noted observer of American democracy  
was Alexis de Tocqueville. A French aristocrat, he visited the U.S. in the 19th century, marveling at the differences between his  
home country and his host country. His book, Democracy in America, is an important classic of political analysis and it will  
form the backbone of this course. We will simultaneously read de Tocqueville and more contemporary social scientific studies  
of aspects of American democracy, with a particular focus on survey data gathered in the U.S. and other countries. Throughout, we  
will explore themes of unity and diversity in American political culture, using recent events, such as 9/11, the 2004 and 2008  
presidential elections, and the economic crisis of 2008-09, as settings in which these themes play out. By successfully completing this  
course, students will be able to: ? Identify salient institutional differences between the U.S. political system and other democracies.  
? Understand why different political institutions have been adopted in different places and their trade-offs in terms of such societal  
values as efficiency, equity, community, and diversity ? Understand why comparative analysis is essential to social science inquiry  
? Appreciate how different values give rise to different policy prescriptions for societal problems and the role that competing  
values play in policy debate ? Clarify your own value commitments and understand their impact on your political thinking? Locate and  
use survey data and other information sources to answer questions about the distribution of political values across American society.  
Style: 60% Lecture, 5% Film/Video, 10% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Guest Speakers.  
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 10% reflection paper, 10% in-class presentation, 20% class  
participation.

POL 4878W Israeli-Palestinian Situation  
4 credit(s); Meets CLE req of Writing Intensive;  
Instructor: Sampson III, Martin Wright  
Description: Examines the issue in its familiar Israelis vs  
Palestinians mode, looking at each side’s basic narrative and the  
historical and political factors surrounding those narratives. The  
course then draws on recent literature from both communities  
that challenges the basic narrative of the writer’s own community, looking at divisions within each community that may  
be consequential for reconciliation of the dispute and looking at the relevance of existing political institutions for such processes.  
Finally, the course devotes attention to contributions to the  
political-psychology reconciliation literature from Palestinians and  
Israelis. Most of the assigned reading is written by Israelis or  
Palestinians. Writing activities early in the course support (a)  
student thinking about the subject and (b) student development of  
the required paper. The course writing portfolio meets the  
Department of Political Science major project requirement.  
Style: 60% Lecture, 20% Discussion, 20% Small Group Activities.  
Grading: 20% mid exam, 30% final exam, 40% reports/papers,  
10% other evaluation.  
Exam Format: A study guide appears a week before the exam  
or the test date. The test and the exam include a choice of short  
questions and a large essay. The guide includes possible essay  
questions, of which one appears on the test and one or two on  
the final exam

POL 4900V Honors: Senior Paper  
A-F only, 1 credit(s); prereq Honors, pol sr, instr consent;  
Instructor: Kellner, Daniel R  
Description: This course exists to provide credit for Political  
Science honors students who are completing their senior  
projects in fulfillment of either cum laude or magna cum laude  
level of honors. These students should register for one credit of  
4900V in the year that they complete their senior papers. (NOTE:  
Students who in the summum cum laude track should not take  
4900V, but 3110V for four credits.

POL 4900W Senior Paper  
A-F only, 1 credit(s); prereq Pol sr, instr consent; Meets CLE  
req of Writing Intensive;  
Instructor: STAFF  
Description: Can be attached to any 3XXX or 4XXX course  
(with the instructor’s agreement). A 10-15 page paper is  
submitted for evaluation/advice by instructor, then revised for final  
submission.  
Grading: 100% reports/papers.  
Exam Format: None

POL 5252 Renaissance, Reformation, and Revolution: Early Modern Political Thought  
4 credit(s); prereq credit will not be granted if credit  
received for: 3252;  
Instructor: Luxon,Nancy  
Description: This course will concentrate on those political  
thinkers writing in a period defined by the gradual emergence of  
the sovereign state, by intense religious conflict, and by  
transformative discoveries in mathematics and science. These  
changes to the political, religious, and scientific spheres posed  
extraordinary challenges to usual methods of conceiving of  
political order and governance. Each of the thinkers we will read  
this semester offers a different response to the perceived fragility  
of trust that resulted from the intense political and religious  
turmoil of the mid-16th to the late 18th centuries. Politically, in  
seeking stable foundations for governance, each theorist speaks  
to the paradoxical relationship between liberty and authority and  
its consequences for political obligation. Each seeks a different  
solution of institutions and relationships by which political authority  
can secure the liberty, however broadly or narrowly defined, of  
citizens. Yet, even as political duties and privileges become more  
widely extended and inclusive, their terms are often ones of  
exclusion: exclusion of women, of children, of the politically  
immature, of the uneducated, of the ignoble. Ethically, each  
thinker advances a different psychological and educational  
project to prepare individuals for their political engagements and  
responsibilities. In response to the fractured social and religious

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online  
Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class  
Schedule.
relationships of the time, each innovates a new picture of human reflection and thought, to understand how humans ought to act and to encourage humans to contribute differently to their political communities. Philosophically, each thinker differently diagnoses the demands of ?nature? or necessity, and the potential offered by ?artificial? constraints or society. With the invention of the scientific experiment and new modes of scientific investigation, these thinkers ask how the tools of scientific inquiry might be adapted for political inquiry. Debate emerges over whether ?nature? is a force to be feared, managed, and tamed or whether it is a site of childish innocence and exuberance.

**Style:** 70% Lecture, 30% Discussion.

**Grading:** 60% reports/papers, 30% reflection paper, 10% class participation.

**POL 5410 Topics in Comparative Politics: Law & (In)Justice in Latin America**
3 credit(s); prereq grad student;
Instructor: Hilbink,Lisa
Description: Student may contact the instructor or department for information.

**POL 5485 Human Rights and Democracy in the World**
3 credit(s); prereq grad student or instr consent; Credit will not be granted if credit has been received for: POL 4485;
Instructor: Sikkink,Kathryn A
Description: Student may contact the instructor or department for information.

**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: 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:** 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.

**Exam Format:** Exam -- Hypothetical Questions

**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 8105 Professional Development II**
S-N only, 1 credit(s), max credits 2; prereq Pol sci student, ABD, dept consent;
Instructor: Keilher,Daniel R
Description: Student may contact the instructor or department for information.

**POL 8120 Core Course in Political Methodology: Modeling Political Processes**
3 credit(s); prereq Pol sci grad major or instr consent;
Instructor: Freeman,John Roy
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: Ansell,Benjamin William
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: Nonparametric & Robust Estimation**
1-3 credit(s), max credits 12, 4 completions allowed; prereq Grad pol sci major or instr consent;
Instructor: Freeman,John Roy
Description: Student may contact the instructor or department for information.

**POL 8160 Topics in Models and Methods**
1-3 credit(s), max credits 12, 4 completions allowed; prereq Grad pol sci major or instr consent;
Instructor: Freeman,John Roy
Description: Student may contact the instructor or department for information.

**POL 8160 Topics in Models and Methods: Topics in Statistical Graphics & Visualization**
1-3 credit(s), max credits 12, 4 completions 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: Practices of the Self**
3 credit(s), max credits 6; prereq Grad pol sci major or instr consent;
Instructor: Luxon,Nancy
Description: Student may contact the instructor or department for information.

**POL 8308 Proseminar in Political Psychology II**
S-N only, 1 credit(s); prereq Grad pol sci major or pol psych minor or instr consent; Credit will not be granted if credit has been received for: PSY 8212;
Instructor: Sullivan,John L
Description: Student may contact the instructor or department for information.

**POL 8360 Topics in American Politics: U.S. Supreme Court**
3 credit(s), max credits 9, 3 completions allowed; prereq Grad pol sci major or instr consent;
Instructor: Johnson,Timothy Russell
Description: Student may contact the instructor or department for information.

**POL 8360 Topics in American Politics: Voters, Campaigns,&Elections**
3 credit(s), max credits 9, 3 completions allowed; prereq Grad pol sci major or instr consent;
Instructor: Goren,Paul Nurullah
Description: Student may contact the instructor or department for information.

**POL 8405 International Political Economy**
A-F only, 3 credit(s); prereq Grad pol sci major or instr consent;
Instructor: Ansell,Benjamin William
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 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010

PORT 1104 Intermediate Portuguese
5 credit(s); prereq Grad pol sci major or instr consent;
Instructor: Shively,W Phillips
Description: Student may contact the instructor or department for information.

PORT 3910 Topics in Lusophone Literatures and Cultures: Race and Miscegenation in Brazil
3 credit(s); max credits 9, 3 completions allowed; prereq Grad pol sci major or instr consent;
Instructor: Moreira,Ricardo A
Description: Student may contact the instructor or department for information.

PORT 1102 Beginning Portuguese
5 credit(s); prereq 1101 or instr consent;
Instructor: STAFF
Style: 15% Lecture, 45% Discussion, in-class exercise
Grading: 15% mid exam, 25% final exam, 20% quizzes, 10% in-class presentation, 20% class participation, 10% other evaluation. compositions

PORT 1104 Intermediate Portuguese
5 credit(s); prereq 1103 or instr consent;
Instructor: STAFF
Description: Continuation of 1103. This intermediate level Portuguese language course focuses on the acquisition of basic skills (Speaking, Comprehension, Reading, and Writing). Cultural aspects: Brazil, Portugal, and/or Lusophone Africa.
Style: 15% Lecture, 45% Discussion, in-class exercise
Grading: 15% mid exam, 25% final exam, 20% quizzes, 10% in-class presentation, 20% laboratory evaluation, 10% other evaluation. compositions

PORT 3001 Portuguese for Spanish Speakers
4 credit(s); prereq [SPAN 3015, LPE or PORT LPE] or [speaker of other Romance language, instr consent ];
Instructor: STAFF
Description: Study of Portuguese based on student knowledge of Spanish (speakers of other Romance languages are allowed with instructor permission). Contrastive approach to the phonic and morpho-syntactic structures of Portuguese. Cultural components will focus on Brazil, Portugal, and/or Portuguese-speaking Africa.
Style: 20% Lecture, 60% Discussion, in-class writing
Grading: 15% mid exam, 20% final exam, 20% reports/papers, 10% quizzes, 15% in-class presentation, 20% class participation.

PORT 3003 Portuguese Conversation and Composition
4 credit(s); prereq 1104, 3001, Port LPE;
Instructor: STAFF
Description: This course will focus on grammar review through practical activities in order to encourage conversation. There will also be readings, films/videos, and discussions that will center on Brazilian and/or Portuguese, and/or Lusophone African cultures. The main objective is for students to improve all four language skills (comprehension, reading, speaking, and writing).

PORT 3502W Foundations of Brazilian Literature and Culture
3 credit(s); prereq 3003 or equiv; Credit will not be granted if credit has been received for: PORT 3502V; Meets CLE req of Writing Intensive;
Instructor: Moreira,Ricardo A
Description: Student may contact the instructor or department for information.

PORT 3102 Beginning Portuguese
2 credit(s); prereq Grad student;
Instructor: Cordeiro,Celia Carmen
Description: Student may contact the instructor or department for information.

PORT 4104 Intermediate Portuguese
2 credit(s); prereq Grad student;
Instructor: Bartolomei,Fernanda Horta
Description: Student may contact the instructor or department for information.
PORT 5910 Topics in Lusophone Cultures and Literatures: The Lusophone Transatlantic Matrix
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Arenas,Fernando
Description: There are two main objectives to this course: (1) offer a critical framework that will provide historical, geopolitical, discursive, and cultural coordinates in order to understand the formation of Portuguese-speaking nations (particularly Brazil, Angola, and Cape Verde) that emerged from the experience of colonialism and the transatlantic slave trade; (2) offer an interdisciplinary approach to the study of culture that pays close attention to the strategies and protocols involved in knowledge production in the attempt to interpret as well as represent reality, while cultivating a critical practice that emphasizes a cross-fertilization of discourses involving history, literature, popular music, film, anthropology, sociology, religion, and critical theory. This course will be based on the premise that Africa is central to the construction of European empires and to the rise of Westernization since the sixteenth century. By the same token, in the specific case of the Portuguese empire, it argues that without Brazil there would have been no empire, and yet without Angola, there would have been no Brazil. Thus, the intrinsic interconnections between Portugal, (Lusophone) Africa, and Brazil until today will be the object of sustained attention throughout this course. Connections with other transatlantic networks will be established when relevant (Francophone, Hispanic, and Anglophone). Key concepts and issues: (post)colonialism, transatlantic slave trade, transculturation, the coloniality of power, hybridity, syncretism, Lusotropicalism, racial democracy, African diaspora, immigration, Lusofonia. Lectures will be primarily in Portuguese. Readings, discussion, and writing will be in Portuguese, English, and/or Spanish. This course is aimed at graduate as well as advanced undergraduate students.

PORT 5990 Directed Research
1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Arenas,Fernando
Description: Student may contact the instructor or department for information.

PORT 5990 Directed Research
1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Ferreira,Ana Paula
Description: Student may contact the instructor or department for information.

PSTL 722 Introductory 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: 0616, 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 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 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 word problems. Hourly time commitment per week: Class: 4, Reading: 1, Writing: 0, Studying: 2, Homework: 0, Discussion: 30%; Reading: 1, Writing: 0, 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 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: 0616, 0625, 0631, 0731, 1443, 1444, 1445, 1446; Credit will not be granted if credit has been received for: PSTL 731;
Instructor: Robertson,Douglas Frederick
Description: A second course in algebra taught using computer-mediated instruction. You learn new material using interactive multimedia computer software. There are no lectures. You will be on the computer 70% of each class period. The rest of the time you will be working on algebra problems, taking exams, and working individually with the instructor. This course is not self-paced; you must follow a set schedule for checkpoints, homework, and exams. Course covers concepts and procedures of intermediate algebra at a level of difficulty and abstraction geared for students enrolled at a research university. To be successful you must enter the course being able to work with expressions, equations, exponents, polynomials, factoring, rational expressions and equations, and graphs. Course content includes roots, radicals, linear, quadratic, exponential, and logarithmic functions, and word problems. Hourly time commitment per week: Class: 4, Reading: 1, Writing: 0, Studying: 2, Homework: 6. Homework assignments ask you to work 10-40 problems each class day. Testing includes daily mini-quizzes, four 50 minute closed-book exams and a two hour comprehensive final. Calculators are allowed. Course prepares you for Math 1031 College Algebra or Math 1051 Precalculus I, as well as PsTL 1004 Statistics and PsTL 1006 Mathematical Modeling and Prediction (both of which satisfy the CLE Mathematical Thinking requirement).
Style: 30% Discussion, 70% Web Based. Computer-mediated instruction, work individually, work one-on-one with instructor
Grading: 60% mid exam, 20% final exam, 10% quizzes, 10% written homework.
Exam Format: Exams are problem oriented (e.g., Solve this equation)

PSTL 1004 Statistics
4 credit(s); prereq Intermediate algebra or equiv or placement exam credit will not be granted if credit received for: GC 1454 or Stat 1001; Meets CLE req of Mathematical Thinking Core;
Instructor: Stottlemeyer PhD,Janet
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.
PSTL 1004 Statistics
4 credit(s); prereq Intermediate algebra or equiv or placement exam credit will not be granted if credit received for: GC 1454 or Stat 1001; Meets CLE req of Mathematical Thinking Core;
Instructor: Loeh, 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 statistical literacy that enables them to critically assess information encountered in the media and other sources. This course will be of particular interest to undergraduate non-majors who want to fulfill the CLE requirement in Mathematical Thinking. Style: 40% Lecture, 9% Discussion, 50% Small Group Activities, 1% Student Presentation. Grading: 25% reports/papers, 55% additional semester exams, 20% problem solving. The 20% of the course grade for problem solving involves course work done in the classroom - most assignments will be found in the course packet. Exam Format: Exams are a combination of short answer questions, calculations and graphing, and multiple choice questions.

PSTL 1006 Mathematical Modeling and Prediction
3 credit(s); prereq Three yrs high school math or grade of at least C+ in [0731 or 0732] or placement test score or instr consent; Meets CLE req of Mathematical Thinking Core;
Instructor: Babulal, Ganesh Muneshwar
Description: Students will use algebra to create equations and use probabilities to represent a wide variety of situations using real world data and the graphs and mathematical models associated with that subject. It is a mathematical thinking course that primarily uses mathematical models to describe real world data and demonstrate the uses of mathematical manipulations. Data are described by a mathematical model and a graphical rendering. These models are then used to make predictions. Students will develop algebraic and critical thinking skills while observing and analyzing the behavior of real-world data. The foundations of counting and probability will be integrated into the modeling activities. When students have successfully completed this class, they will be able to develop, select, and fine-tune equations and use probabilities to represent a wide variety of situations using real world applications and applying a model to the data with mathematics, both equations and graphs. There will be lecture, demonstrations, individual in class work, and small group work in the class.
Style: 80% Lecture, 10% Laboratory, 10% Demonstration. Grading: 20% final exam, 40% special projects, 10% written homework, 30% additional semester exams.

PSTL 1006 Mathematical Modeling and Prediction
3 credit(s); prereq Three yrs high school math or grade of at least C+ in [0731 or 0732] or placement test score or instr consent; Meets CLE req of Mathematical Thinking Core;
Instructor: Staats, Susan K
Description: Students will use algebra to create equations and graphs that describe real world data and situations. Students will learn to use these mathematical models to make predictions, to evaluate error and to link observed phenomena with algebraic processes. The course is both theoretical and practical. It focuses on applications of linear, polynomial, exponential and logarithmic functions will be explored. Probability will also be introduced. Students will develop algebraic and critical thinking skills while observing and analyzing the behavior of real-world data. The foundations of counting and probability will be integrated into the modeling activities. When students have successfully completed this class, they will be able to develop, select, and fine-tune equations and use probabilities to represent a wide variety of situations using real world applications and applying a model to the data with mathematics, both equations and graphs. There will be lecture, demonstrations, individual in class work, and small group work in the class.
Style: 20% Lecture, 40% Special Project, 20% Class Participation, 10% Self Assessment.
Grading: 30% Class Participation, 20% Mid-term Exam, 10% Final Exam, 10% Class Journal, 10% Student Presentation.

PSTL 1081 Integrated Learning in the Social Sciences
A-F only, 2 credit(s), max credits 4; prereq Concurrent registration in social science course, adviser approval;
Instructor: Babulal, Ganesh Muneshwar
Description: Intensive support for mastering concepts and skills presented in PSTL 1281: Principles of Psychology with which it is paired. Includes methods for effectively engaging disciplinary content through critical thinking, field-specific vocabulary, core concepts, writing and presentation styles associated with disciplinary content. Students will work to develop reading and writing skills that will not only assist them in this class, but also throughout the course of their college careers. Students will...
participate in a variety of reading and writing lessons and collaborative group discussions. This course is intended to aid students in learning how to respond critically and comprehensively to readings, quizzes and class discussions, while displaying their own opinions and mastery of course work. Style: 10% Lecture, 10% Film/Video, 40% Discussion, 30% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.

Grading: 10% reports/papers, 20% quizzes, 33% attendance, 20% journal, 7% in-class presentation, 10% class participation.

PSTL 1082 Integrated Learning in the Sciences
A-F only, 2 credit(s), max credits 6, 3 completions allowed; prerequisite Concurrent registration in science course, adviser approval;
Instructor: Spur, Stowe Murray
Description: Intensive support for mastering concepts and skills presented in PSTL 1131: Principles of Biological Science with which it is paired. Emphasis on effectively engaging disciplinary content by providing sustained time and attention to scientific research methods, field-specific vocabulary, core concepts, written and presentation styles associated with disciplinary content.

PSTL 1131 Principles of Biological Science
4 credit(s); Meets CLE req of Biological Sciences/Lab Core;
Instructor: Hatch, Jay Tudor
Description: This is a learner-centered introductory level course that guides you toward developing your own understanding of the preeminent principles of biology, including Ecology, Biodiversity, Evolution, Genetics, Cell Theory, and the Molecular Basis of Life. But, we strive to have you do so in the context of your own daily living, being ever mindful that all living things are connected in an intricate web of life, and that how you live your life affects the nature of that web. So, how do we begin? By asking questions and developing answers. Here's some questions we'll try to answer from a scientific point of view (and don't worry, you'll get to ask and answer your own questions as well). Who are you? Are we alone in the universe? Want to have a clone? Is there really such a thing as race? Are you only as smart as your genes? Is creationism an alternative to evolution? Is the earth warming? Are we creating a biodiversity crisis? Is social justice possible? How might a shark save my life? We will spend much of our time in the classroom working on small-group activities designed to develop answers to the questions based on what we already know (or think we do) and new knowledge that we are constructing. Sometimes there will be short (10-minute) lectures to help out with difficult concepts; and always we will take time to write about what we understand, how we came to understand it, and what we still don't understand. In the laboratory, you will work in cooperative pairs, focusing on the process of science; that is, how scientists go about observation, formulating questions, transforming the questions into hypotheses, testing the hypotheses, collecting data, organizing and interpreting the data, drawing conclusions, and communicating their work to the world. There is no dissection of organisms in this course.

Style: 20% Lecture, 20% Discussion, 30% Laboratory, 30% Small Group Activities.

Grading: 16% mid exam, 17% final exam, 16% special projects, 17% class participation, 33% laboratory evaluation. Lab scoring based on weekly quizzes, lab reports, written homework, and one problem set.

Exam Format: Multiple choice

PSTL 1135 Essentials of Human Anatomy and Physiology
4 credit(s); prerequisite credit will not be granted if credit received for: GC 1135; 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.
and teaching in a multidisciplinary field of studies. With a focus on experiential learning, students in this course will develop an interdisciplinary way of thinking that can be used to understand other major social issues.

**Style:** 25% Lecture, 40% Discussion, 10% Laboratory. 6 self designed field trip

**Grading:** 20% reports/papers, 40% quizzes, 10% in-class presentation, 10% class participation, 20% other evaluation. self designed field trips

**Exam Format:** multiple choice, 10 questions

---

**PSTL 1204 Ways of Knowing in the Social Sciences**

A-F only, 4 credit(s); Meets CLE req of International Perspect Theme; meets CLE req of Social Science Core;

**Instructor:** Stebleton, Michael J

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

---

**PSTL 1211 Multicultural Perspectives in Sociology**

4 credit(s); prereq credit will not be granted if credit received for: GC 1211; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

**Instructor:** Kelly, Margaret Ellen Delehanty

**Description:** This course is an introduction to sociological thinking and methods of research. We will explore areas of human interaction that include socialization, culture, stratification and inequality (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 modern social thought. 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 to understand the ways in which different aspects of social life systematically differentiate by privileging and disadvantaging our participation in society. Service Learning will be required in this course.

**Style:** 30% Lecture, 30% Discussion, 30% Small Group Activities, 5% Student Presentation, 5% Service Learning

**Grading:** 20% mid exam, 20% final exam, 20% reports/papers, 15% special projects, 5% written homework, 5% attendance, 5% in-class presentation, 10% class participation.

**Exam Format:** multiple-choice

---

**PSTL 1211 Multicultural Perspectives in Sociology**

4 credit(s); prereq credit will not be granted if credit received for: GC 1211; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

**Instructor:** Ronkwist, Amy Michelle

**Description:** This course provides an introduction to sociological methods and approaches. Areas of study include socialization, culture, stratification (on the basis of race, class, and gender) institutions, social control and social change. During the semester we will explore these and other topics in an overview of major ideas associated with classical and social modern thought. Through the readings, we will contest everyday understandings of social issues and consider the ways in which different aspects of social life systematically differentiate by privileging and disadvantaging our participation in society. The course places particular emphasis on applying sociological ideas to everyday life.

**Style:** 60% Lecture, 20% Discussion, 20% Small Group Activities.

**Exam Format:** multiple choice

---

**PSTL 1231 U.S. History: Multicultural Perspectives**

4 credit(s); prereq credit will not be granted if credit already received for: GC 1231, GC 1231W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

**Instructor:** Ghere, David Lynn

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

---

**PSTL 1231 U.S. History: Multicultural Perspectives**

4 credit(s); prereq credit will not be granted if credit already received for: GC 1231, GC 1231W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Historical Perspective Core;

**Instructor:** Poch, Robert Karl

**Description:** The primary goal of this course is to proactively engage students in exploring the nature of citizenship in the United States, how it has changed through time, and practical ways in which we can become engaged citizens today in a multicultural society. We examine the role of individuals and groups in shaping and defining the nature of citizenship and public ethics in U.S. society and ask when and if all people in the U.S. have had equal opportunity for full citizenship. Further, we investigate and discuss what social, legal, and institutional practices impact the capacity of individuals and groups to engage in citizenship in a multicultural democracy.

**Description:** The Greeks defined the term ?citizen? as a person engaged in citizenship in a multicultural democracy. Using multiple lenses of history, law, psychology and sociology, this course, examines the role of individuals and groups in shaping the nature of citizenship and public ethics in U.S. society. Using social science texts, historical narratives, literature, and legal cases, the course explores the nature of legal and personal responsibility with particular attention to race, class, gender and civil rights. In addition, to learn how the adversarial system works (or doesn?t work!) all students will participate in a full mock jury trial.

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

**Grading:** 45% reports/papers, 5% quizzes, 10% written homework, 25% in-class presentation, 15% class participation.

---

**PSTL 1246 Multicultural Contexts: Engaging Citizenship and Democracy**

3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core;

**Instructor:** Arendale, David R

**Description:** This course fulfills Two Graduation Requirements: CLE Diversified Core: Historical Perspectives CLE Designated Theme: International Perspectives Overview World History and Culture examines the 20th and 21st centuries to examine the profound and enduring ideas that have influenced the development of global, political, social, and economic systems. This course explores civilizations of the world by placing historical events, customs and cultures in a global context. The use of historical documents, computer resources, historical simulations, texts, film documentaries, small group discussions, and lecture presentations are combined to create a comprehensive view of the major world cultures. This course provides a balanced exploration of world history during the past 100 years. The course develops major concepts such as nationalism, democracy, colonialism, liberalism, socialism, communism, and fascism while tracing their impact on Europe, Asia, Africa, and the Americas. Major questions explored include: What are the forces that guide history as it unfolds? How does today's news headlines connect with the past? Is it possible to predict the near future and make personal plans as a result? Exploring these questions helps to make sense out of history and connect "then and now." Current events such as ethnic
conflicts, the breakup of the Soviet Union, the modernization of Japan, China, and India, Arab/Israeli disputes, nation building in Africa, neo-colonialism and trade dependence in developing countries make when the past is explored and connections made with the present. Technology: Another life skill that is developed through this course is the use of technology. Like many other courses at the University, WebVista is an important Internet tool that serves as a companion to the course. Utilizing the features of WebVista will allow accessing of critical course materials (notes, guides, lecture outlines, information links). An additional feature of this course is integrating the use of blogs, wikis, and podcasting into the course. As a class we will construct a weekly audio podcast that features a review of the history topics as well as include music selected by students. Check out the podcast at http://thenandnow.org. It can be subscribed through iTunes. You can also sample the podcast by clicking on the web link on that web page. Also, the class will construct online its own study guide for the major exams. Check out the website at http://myworldhistory.net. Final Words History is all around us. We observe it as well as help to create it. The only way to study history is to hold a history textbook in one hand and today’s newspaper in the other. This class is about creating connections among the textbook and today’s newspaper headlines. It is about making sense out of a world that sometimes seems not to make very much sense at all. I hope that you decide to join us in the class.

**Style:** 60% Lecture, 10% Film/Video, 15% Discussion, 10% Small Group Activities, 2% Field Trips, 3% Web Based.

**Grading:** 20% mid exam, 20% final exam, 10% reports/papers, 10% special projects, 10% quizzes, 20% additional semester exams, 5% reflection paper, 5% class participation. Study guides for major exams created by students in the class and also provided by the course instructor. Also the course instructor and the enrolled students coproduce a weekly podcast that reviews the textbook chapter and class lectures.

**Exam Format:** Major exams have three parts: matching vocabulary, multiple-choice, and essay questions.

**PSTL 1281 Principles of Psychology**

4 credit(s); prerequisite credit will not be granted if credit received for: Psy 1001, GC 1281; Meets CLE req of Social Science Core;

**Instructor:** Wambach, Cathrine A

**Description:** PSTL 1281 is an introductory psychology course. It is equivalent to Psy 1001 and introductory psychology courses offered at other colleges and universities. You should not take this course if you have already received college credit for introductory psychology. The course includes content required for future study in psychology, business, education and health sciences. The content of the course includes terminology, theories and the results of research from the major areas of research and practice including sensation, perception, cognition, motivation, emotion, learning, personality, abnormal behavior, therapeutic practices, health and social behavior.

**Style:** 50% Lecture, 25% Discussion, 25 quizzes

**Grading:** 15% final exam, 5% reports/papers, 50% quizzes, 10% written homework, 5% attendance, 15% other evaluation.

**Exam Format:** multiple choice

**PSTL 1281 Principles of Psychology**

4 credit(s); prerequisite credit will not be granted if credit received for: Psy 1001, GC 1281; Meets CLE req of Social Science Core;

**Instructor:** Grier-Reed, Tabitha LaShaun

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

**PSTL 1281 Principles of Psychology**

4 credit(s); prerequisite credit will not be granted if credit received for: Psy 1001, GC 1281; Meets CLE req of Social Science Core;

**Instructor:** Madyun, Naim Hosseim

**Description:** In this introductory psychology course, students will describe and apply the major theoretical perspectives that guide our understanding of human behavior particularly within the contexts of education and human services. Application exercises, weekly quizzes, discussion writings and a semester project will be used to teach course content and assess how well students are able to integrate courses readings and lectures into a fundamental understanding of human behavior. Students' grades will be determined by their performance on tests, the quality of their written work, and by homework, attendance and participation.

**Style:** 25% Lecture, 20% Discussion, 20% Small Group Activities, 35% Web Based.

**Grading:** 10% final exam, 10% special projects, 60% quizzes, 5% attendance, 10% reflection paper, 5% class participation.

**PSTL 1289 Psychology and Self: Developing Identities**

3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;

**Instructor:** Madyun, Naim Hosseim

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

**PSTL 1312 Creating Identities Through Art and Performance**

4 credit(s); Meets CLE req of Other Humanities Core;

**Instructor:** Dorsey, Heather Jane

**Description:** This section of PSTL 1312 is part of a learning community paired with PSTL 1204, Ways of Knowing in the Social Sciences, taught by Mike Stebleton. Through international and multi-cultural lenses, students will discover how our collective past and present experiences shape our identities. By combining the arts with the exploration of the social sciences, this community will examine the concepts such as place, self, and identity. This learning community will examine our collective stories and shared experiences by attending live performances, museums, tours, and other experiential activities. No previous training or experience is required, but you will need to be willing to engage in basic performance exercises. You will come out of this course able to communicate more effectively and collaborate with others, essential skills for life. The Washington Street Bridge will be our final performance space, the perfect place to explore and perform questions of identity, community, and culture.

**PSTL 1312 Creating Identities Through Art and Performance**

4 credit(s); Meets CLE req of Other Humanities Core;

**Instructor:** Buturian, Linda J

**Description:** "Creating Identities through Art and Performance" is an introductory course that both analyzes and creates art in order to experience how different genres of art reveal social and cultural themes that shape identity. Students will be reading and reflecting on short stories, digital stories, plays, poetry, film, music, and photography. Students will also create multimedia projects which reflect their identity through some combination of text and images.

**Style:** 40% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities, 5% Student Presentation, 10% Demonstration, 10% Studio, 5% Guest Speakers, 5% Web Based.

**Grading:** 20% reports/papers, 20% special projects, 10% written homework, 10% attendance, 10% reflection paper, 20% in-class presentation, 10% class participation.

**PSTL 1312 Creating Identities Through Art and Performance**

4 credit(s); Meets CLE req of Other Humanities Core;

**Instructor:** Frederickson, Tina

**Description:** PSTL 1312 is an arts and humanities course that provides you with the opportunity to create, analyze, and understand how the creative process can reveal our cultural identity as an individual and as a community. This particular section of 1312 helps you explore identity and the creative process by focusing on developing an understanding and appreciation of the performing arts (theatre arts, oral interpretation of literature, storytelling/spoken word), from the perspective of critical viewer and creative participant. To that end, however, there is much overlap from other artistic mediums such as creative writing, visual art, dance, and music to infuse and enrich the creative experience as we explore the theme of identity.

**Style:** 25% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities, 30% Student Presentation, 15% Field Trips.
PSTL 1365W Literatures of the United States: Multicultural Perspectives
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Hodne, Barbara Downs
Description: REQUIRED TEXT Paul Lauter, ed. The Heath Anthology of American Literature Volumes C, D & E 5th ed. COURSE DESCRIPTION Welcome to Literatures of the U.S. In PSTL 1365W, you will read short stories, memoir, creative nonfiction, and poetry by a wide range writers in the nearly 150 years since the end of the civil war. The overarching goal of this course is to understand how U.S. literatures do what all literature does?use language in creative ways to communicate a writer?s sense of what it means to be human and to experience conflicts arising out of human imperfection. These writers portray challenges, conflicts, triumphs, ideas and illusions experienced by the diverse peoples of the United States, often crafting their works to address injustices and to create social change. While we will consider and discuss the striking array of diversity in terms of the tone, power, mood, subject, and voice across this selection of literature, we will focus on the common formal elements that are the tools of any writer: including word choice, imagery, narrative perspective, and form. This will enable us to study how writers, while using a shared set of tools, can create a range of effects and responses depending on how they manipulate those tools. Through class discussions, informal writing and analytical essays you will explore?and I hope you will experience--the powerful role literature can play in expanding our understanding of each other as human beings doing the best we can.
Style: 20% Lecture, 5% Film/Video, 40% Discussion, 20% Small Group Activities, 10% Student Presentation, 5% Demonstration.
Grading: 30% mid exam, 60% reports/papers, 6% quizzes, 4% in-class presentation.
Exam Format: What is listed here as Mid Exam is actually three exams, given about Week 5, Week 10, and Week 15. Exams 1 & 2 will have two sections: 1) a matching section completed in class to test your knowledge of the stories and historical contexts; and 2) a ta

PSTL 1365W Literatures of the United States: Multicultural Perspectives
4 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Hyland, Ezra St
Description: Student may contact the instructor or department for information.
PSTL 1366 Literatures of the U.S.: Multicultural Perspectives
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;
Instructor: Peter, Gary E
Description: Student may contact the instructor or department for information.
PSTL 1366 Literatures of the U.S.: Multicultural Perspectives
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;
Instructor: Fitzpatrick, Renata
Description: In this course, we will focus specifically on the literature of the American Immigrant Experience. We will read texts written by 1st or 2nd generation immigrants about their own experiences and reflect on themes related to this important American phenomenon. Students will participate in literary analysis and discussion, and respond to readings with shorter essays and exams. In this introductory course, students will also investigate the ways academics read literature.
PSTL 1366 Literatures of the U.S.: Multicultural Perspectives
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;
Instructor: Hyland, Ezra St
Description: Introduction to U.S. literatures is designed to raise a range of questions about American identity within broad social, historical, political, and literary contexts while highlighting the diversity of form, perspective, and style in U.S. literature. Course emphasizes literary analysis, fostering student development of critical analysis and interpretation through close reading of texts, class discussion, and formal and informal writing assignments.
PSTL 1336 Literatures of the U.S.: Multicultural Perspectives
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;
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.
Exam Format: multiple choice and essay answers.
PSTL 1367W Literatures of the World: International Perspectives
4 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: Cory, Kristin Anne
Description: Student may contact the instructor or department for information.
PSTL 1368 Literatures of the World: International Perspectives
3 credit(s); Meets CLE req of International Perspective Theme; meets CLE req of Literature Core;
Instructor: Cory, Kristin Anne
Description: In this course students will read novels from different parts of the world that share a focus on the experience of young people as they enter into the adult world. We will use these novels as a basis for exploring the ways that literature works and the work it does, drawing us deeper into our selves and also further into the world around us. Course work will center around small and large group discussions, activities and various formal and informal written assignments.
Style: 20% Lecture, 40% Discussion, 40% Small Group Activities.
PSTL 1371 Reading Short Stories
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Literature Core;
Instructor: Rojas Collins, Molly C
Description: Student may contact the instructor or department for information.
PSTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Public Ethics Theme;
Instructor: Trites, Jill K
Description: Designed to promote critical thinking as well as to provide students with the opportunity to explore relevant multicultural perspectives in the field of public speaking.
Description: Students develop fundamental skills, knowledge, and abilities to confidently communicate their thoughts and ideas to others in a public forum. Students prepare and present a series of informative and persuasive speeches on socially significant topics in multicultural contexts. Special focus on ethics, citizenship, voice, language. Every student will have at least ten opportunities to present during the semester, from one-minute informal presentations to eight-minute formal presentations. Three speeches will be digitally recorded, and we will utilize an on-line annotation tool called VideoANT for both self and peer critiques.

Style: 20% Lecture, 5% Film/Video, 20% Discussion, 25% Small Group Activities, 30% Student Presentation.

Grading: 20% quizzes, 15% written homework, 55% in-class presentation, 10% class participation.

Exam Format: Students have choice of taking the quizzes in two formats: (A) multiple-choice and true/false, or (B) essay.

PSTL 1461 Multicultural Perspectives in Public Speaking 3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Dorsey, Heather Jane

Description: The purpose of this course is to introduce the student to the field of Speech Communication; to show basic theories of communication; to illustrate the complicated process that is communication; and to demonstrate that, through conscious choices, the student can significantly impact the effectiveness of communication. This course will aid the student in the development of communication skills and allow for assessment of personal strengths, weaknesses and barriers to communication. This, ultimately, will prepare the student to be a better communicator.

PSTL 1461 Multicultural Perspectives in Public Speaking 3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Kelly, Margaret Ellen Delehanty

Description: Students develop fundamental skills, knowledge, and abilities to confidently communicate their thoughts and ideas to others in a public forum. Students prepare and present a series of informative and persuasive speeches on socially significant topics in multicultural contexts. Special focus on ethics, citizenship, voice, language.

PSTL 1461 Multicultural Perspectives in Public Speaking 3 credit(s); prereq credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461; Meets CLE req of Citizenship/Publ Ethics Theme;

Instructor: Frederickson, Tina

Description: This course is designed to develop an understanding of the fundamental principles, processes, and practices of face-to-face human communication. Core focus is on public communication: providing practical public speaking experiences and opportunities to critically analyze this rhetorical art. Emphasis is placed on frequent in-class presentations, critical and creative thinking, written critiques, readings, and group discussions. Understanding the power of speech, language, and organization of ideas to reach communicative goals is paramount.

Style: 20% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 35% Student Presentation.

Grading: 11% mid exam, 13% final exam, 18% written homework, 8% attendance, 50% in-class presentation.

PSTL 1481 Thinking Through Art 3 credit(s); Meets CLE req of Other Humanities Core;

Instructor: Hyland, Ezra St.

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

PSTL 1485 Creativity: Photography 4 credit(s); prereq Own camera [35 mm w/adjustable controls preferred], UC; $50 lab fee; Credit will not be granted if credit has been received for: UC 1485;

Instructor: Millikan, Jeffrey B

Description: This introductory course explores conceptual, technical, and historical aspects of photography as an art form. Emphasis is on the creative process through hands-on experience as students learn about camera control, film development, enlarging, and printing in a photographic darkroom. Students receive instruction and support through individual and group discussion and critiques as they work to create a portfolio of their own images. Course includes required lab time in addition to scheduled class times. Students must have a film based camera, (35mm with adjustable controls preferred).

Style: 30% Lecture, 20% Discussion, 50% Laboratory.

PSTL 1511 Introduction to Business and Society 4 credit(s); Meets CLE req of Social Science Core;

Instructor: Kroell, Patrick A

Description: Introduction to Business and Society is a business/social science course allowing students to explore a broad range of business content from accounting to z-style management. It satisfies the University's qualification as a social science. Students use the course to help explore possible majors and business careers.

Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.

PSTL 1571 Computer Literacy and Problem Solving 4 credit(s); prereq credit cannot be granted if credit has already been received for: 1573, or 1574; Credit will not be granted if credit has been received for: DHA 1203;

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-based course and there are no lectures. The instructor helps students individually during class as they work on course projects. Course uses Microsoft Office 2007 for Windows.

Style: Students work on computers, get help from instructor.

Grading: 30% mid exam, 35% final exam, 35% written homework.

Exam Format: Exams done on the computers in the classroom. Students modify documents as instructed.

PSTL 1903 Freshman Seminar: Citizenship and Public Ethics 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. Topics will range from personal decisions, e.g., using a condom, to federal law, e.g., Row vs. Wade, and even world politics, e.g., the one child rule in China. Cultural and religious traditions will be used as a framework for many topics.
and special consideration will be given to the lessons learned from our country’s history with eugenics. This course will include many topics related to citizenship and public ethics, and specifically, bioethics. Should a human try to reproduce as much as possible? Should one person be able to tell another person to stop reproducing? Should state or national government bodies influence family planning? Should family size be linked to welfare laws? These and many more ethical 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 biotechnical 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**

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:** Quality of human life?in terms of access to basic resources, health and economic living standards?varies dramatically across the globe. This interdisciplinary class uses social, ecological and quantitative perspectives to study the United Nations? Millennium Development Goals to reduce abject poverty and inequality across the world. International issues covered include deforestation, global warming, urbanization and women?s and children?s health. The Millennium Project charts pathways to global development that may provide a more equitable future for all of the world?s people. Students will be able to develop their own reaction to significant international issues. One of the interdisciplinary goals of this class is to provide students a means of improving their algebra skills in a meaningful, humanistic context. There is no math prerequisite.

**PSTL 1906W Freshman Seminar: Environmental Issues**

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 expressions inspired by water. Selected readings, guest speakers, and films will help us understand how the ecosystem functions, inform us on challenges involving access to clean water, inspire us with artistic endeavors, and educate us about some of the efforts going on at the University and beyond to protect and celebrate the gift of clean water. Students will have an opportunity to visit a university or community organization of their choosing, and take photographs in order to create digital stories. The class will post their digital stories to a public website that they also create. Technical assistance will be provided. Students will write in the forms of first person narrative, an analytical paper, as well as weekly responses to readings. Throughout the seminar the instructor will be teaching effective writing strategies and providing feedback on students’ work. One paper can be revised after receiving teacher’s feedback. The seminar will be an exciting, hands on experience from a multidisciplinary perspective, about a resource we can’t live without.

**PSTL 1990 Special Topics: A Lesson Before Dying: Theatrical Performance**

2 credit(s), max credits 8, 1 completion allowed; prereq instructor consent; college consent;

**Instructor:** Dorsey,Heather Jane

**Description:** The struggle for social justice and dignity in segregated Louisiana during the 1940’s is brought to life in this live theatrical performance of A Lesson Before Dying. In this course, we will give voice to Ernest Gaines’ characters as we perform, design and build sets, create costumes, publicize and market our end of the semester performances. Whether you choose to be on stage or off stage, everyone is welcome. No previous theatre experience is required.

**PSTL 5106 Multicultural Teaching and Learning in Diverse College Contexts**

A-F only, 3 credit(s); prereq Grad student;

**Instructor:** Higbee,Jeannie Louise

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

**PSTL 5212 Multicultural Theories of College Student Development Applied to Teaching and Learning**

A-F only, 3 credit(s); prereq Grad student;

**Instructor:** Stebleton,Michael J

**Description:** Student may contact the instructor or department for information.
PSY 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSY 1001H; Meets CLE req of Social Science Core;
Instructor: Luciana, Monica Marie
Description: This course is designed to closely parallel the introductory psychology class offered to undergraduates at the University of Minnesota. It is a prerequisite for all other psychology courses. To the extent possible, the presentation of topics, format of written assignments, and exams conform to those used in the day school class. This study guide is organized into thirteen Lessons, with accompanying reading and written assignments. It is designed so that it can be completed within a single term. Whether or not you intend to pursue a career in psychology, the study of human behavior is a fascinating process.
Style: This is a printed correspondence section.
Grading: Written assignments [10, 5 points each] = 50 pts
Midcourse exam = 75 pts Final exam = 75 pts TOTAL = 200 +
Extra credit course paper = up to 15 pts

PSY 1001H Honors Introduction to Psychology
4 credit(s); prereq Honors; Credit will not be granted if credit has been received for: PSY 1001; Meets CLE req of Social Science Core;
Instructor: Brothen, Thomas
Description: (Description forthcoming.)
Style: WebCT Internet exercises and quizzes

PSY 1001H Honors Introduction to Psychology
4 credit(s); prereq Honors; Credit will not be granted if credit has been received for: PSY 1001; Meets CLE req of Social Science Core;
Instructor: Briggs, Kathleen Helen
Description: (Description forthcoming.)
Style: WebCT Internet exercises and quizzes

PSY 1511 Psychology
A-F only, 3 credit(s); prereq Only Rochester-admitted students will be able to enroll in this course.; Meets CLE req of Social Science Core;
Instructor: O'Connor, Erin Leigh
Description: Student may contact the instructor or department for information.

PSY 1905 Freshman Seminar: Fact and Fiction in Standardized Testing
A-F only, 3 credit(s); prereq freshman;
Instructor: Kuncel, Nathan Richard
Description: This seminar will review a wide range of topics surrounding what intelligence tests?ranging from the ACT to Stanford Binet?actually measure, and how they relate to important life outcomes including death, divorce, academic success, and work performance. We will explore the nature of intelligence and creativity, dig into twin and neurological research on IQ, and root around in several mysteries in psychological science, including dramatic increases in IQs in the U.S. over the preceding decades, birth-order effects, and the influence of parenting behaviors on intelligence and life outcomes. We will focus on learning and discussing quantitative research results with the goal of linking them to public policy.

PSY 1905 Freshman Seminar: Psych of Design: Smart Products, Graphs, and Logos
A-F only, 3 credit(s); prereq freshman;
Instructor: Engel, Stephen A
Description: This seminar will introduce students to the psychology of good design. We will focus on three areas: 1) How to design easily usable products, 2) How to design easily understandable charts, graphs, and presentations, and 3) How to design effective logos and advertisements. The first 12 weeks of the class will be divided into three parts, during which we will read and discuss a classic text in each area. In the remaining classes students will present their own critiques of designs that they have picked from the real world, analyzing strengths and suggesting improvements.

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: 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: Klieger, David Marc
Description: Under Construction. In the meanwhile, if you'd like to know something about the instructor, you can find his personal web page at http://www.klieger.com

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: Filson Moses, Jennifer Michelle
Description: PSY 2801 is specifically designed for students who plan to major in psychology. It is an introduction to the basic concepts and procedures related to the measurement and analysis of psychological variables. The main focus of the course will be learning the appropriate selection and use of statistical tools to describe and evaluate results of psychological research. The course is designed to be approachable to students from a wide variety of "math" backgrounds and we endeavor to help even the most math-phobic!
Style: 66% Lecture, 34% Laboratory.
Grading: 20% mid exam, 20% final exam, 40% written homework, 20% additional semester exams.

PSY 3001V Honors Introduction to Research Methods
3 credit(s); prereq [[1001 or 1001H], [2801 or 2801H]] or department consent; PSY major, honors student; Credit will not be granted if credit has been received for: PSY 3005V; Meets CLE req of Writing Intensive;
Instructor: Videra, Sara L
Description: PSY 3001V (3 cr) 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 3001V 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), honors status, and at least sophomore standing.

PSY 3001W Introduction to Research Methods
3 credit(s); prereq [[1001, [2801 or 2801H]] or department consent; PSY major, honors student; 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 (W1) course and satisfies a Liberal Education social science requirement. As such, students will complete a number of writing assignments, culminating in an APA style research report. This course meets the writing intensive requirement stating that at least 33% of the student’s final grade must be based upon student writing.

Prerequisites: PSY 1001 (Intro Psychology), PSY 2801 (Intro to Psychological Measurement and Data Analysis), and at least sophomore standing.

Style: 50% Lecture, 50% Laboratory.
Grading: 15% mid exam, 25% final exam, 40% reports/papers, 10% written homework, 10% laboratory evaluation.

PSY 3001W Introduction to Research Methods
3 credit(s); prereq [1001, [2801 or 2801H]] or department consent; Credit will not be granted if credit has been received for: PSY 3005V; Meets CLE req of Writing Intensive;
Instructor: Gunt, Amy Louise
Description: Student may contact the instructor or department for information.

PSY 3011 Introduction to Learning and Behavior
3 credit(s); prereq 1001;
Instructor: Peterson, Gail Burton
Description: Basic laboratory methods, fundamental phenomena, theoretical analyses, and summary principles from the field of learning and behavior change. Survey of major 20th century theorists and their distinctive perspectives, as well as introduction to contemporary descriptive and explanatory models. General introduction to classic issues in basic philosophy of science and critical analysis common to all empirical sciences.
Style: 90% Lecture, 10% Discussion.
Grading: 60% mid exam, 40% final exam.
Exam Format: Essay and multiple choice. Final is all multiple choice.

PSY 3031 Introduction to Sensation and Perception
3 credit(s); prereq 1001;
Instructor: Olman, Cheryl Annette
Description: This lecture-based course covers basic information about human sensation and perception. Students will learn 1) how the human body turns different physical stimuli into neural impulses (sensation), and 2) how the brain receives and interprets these impulses (perception). Required text: Goldstein, E.B. (2007). Sensation and Perception (7th ed.). Belmont, CA, USA: Thomson.
Grading: 30% final exam, 60% additional semester exams, 10% class participation.
Exam Format: Multiple choice.

PSY 3051 Introduction to Cognitive Psychology
3 credit(s); prereq 1001; Meets CLE req of Social Science Core;
Instructor: Denkinger, Ben
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: Ji, Yuhong
Description: Welcome! This course will provide you with an overview of the theoretical and empirical approaches which constitute Cognitive Psychology. Cognitive psychologists explore the nature of cognitive processes such as attention, memory, concept, reasoning, perception, and language processing. Our goals are to understand (1) the representations and processes in our minds that underwrite these capabilities, and (2) how they are implemented in the underlying hardware, the human brain. Stated more simply, our goal is to understand how the mind works, and how the brain works to produce such a mind. Trying to understand our own minds is one of the most ambitious and exciting projects in all of sciences. This course will introduce you to some of the major tools, assumptions, and theories from a cognitive and cognitive-neuroscience perspective, and expose you to some of the more important results obtained thus far. Student evaluation from past years has been overwhelmingly positive. A copy of last year’s syllabus can be found at http://jianglab.psych.umn.edu/webpages/teaching.htm. Style: 85% Lecture, 5% Film/Video, 10% Laboratory.
Grading: 30% mid exam, 40% final exam, 30% reports/papers.

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: Thomas, Mark John
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 5061;
Instructor: Gewirtz, Jonathan C
Description: Class Description: 1) Provide an overview of neuroanatomy, neurophysiology, and basic principles of biopsychological investigations. 2) Review current knowledge of the biological bases of a wide range of phenomena (including sensation/perception, learning/memory, language, stress, and sleep), and psychiatric disorders (including depression and drug abuse). Objectives: Students should become comfortable with the basic details of brain function, gain a general understanding of the biology of behavior and neurological/psychiatric disorders, and develop skills to understand techniques and evaluate results of neurobiological and behavioral experiments. Lecture Style: Lectures will review some of the topics covered in the readings, but will also include related information not covered in the texts. Class discussions, and videos will supplement some of the lectures. Assigned readings should be completed before class.
Style: 85% Lecture, 15% Discussion.
Grading: 66% mid exam, 24% final exam, 10% quizzes.
Exam Format: multiple choice

PSY 3101 Introduction to Personality
4 credit(s); prereq 1001 or instr consent;
Instructor: Ludeke, Steven G
Description: Student may contact the instructor or department for information.

PSY 3201 Introduction to Social Psychology
4 credit(s); prereq 1001 or instr consent;
Instructor: Fisher, Emily L
Description: Overview of theories/research in social psychology. Emphasizes attitudes/persuasion, social judgment, the self, social influence, aggression, prejudice, helping, and applications.
Style: 75% Lecture, 25% Discussion.
Grading: 20% mid exam, 30% final exam, 15% reports/papers, 20% additional semester exams, 15% reflection paper.

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 3206 Introduction to Health Psychology
3 credit(s); prereq 1001;
Instructor: Howland, Maryhope
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

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
to your health? What psychological and social factors cause people to behave in unhealthy ways? What helps people adjust to illness? do your social relationships 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? How is psychology related to dieting?

**Style:** 75% Lecture, 10% Film/Video, 10% Demonstration, 5% Guest Speakers. Students will collect some data on themselves in class.

**Grading:** 50% mid exam, 40% final exam, 10% written homework. There are 2 midterms, each worth 25%

**Exam Format:** Multiple Choice

---

**PSY 3301 Introduction to Cultural Psychology**

**A-F only, 3 credit(s); prereq 1001; Meets CLE req of Social Science Core;**

**Instructor:** Bahrassa, Nazneen Feraydoon

**Description:** The purpose of this course is to provide an introduction to psychological and consider current theories and research on culture, race, and ethnicity within the fields of psychology, cross-cultural psychology, and minority psychology. Emphasis will be placed on (1) gaining a better understanding of the ways in which sociocultural contexts influence psychological processes, (2) learning about empirical methods in cultural psychology, and (3) achieving a better appreciation of cultural groups within and outside of the United States. Students will also consider issues of culture in interpretation of personal experiences and in application of cultural diversity issues to various settings.

**Style:** 100% Web Based.

**Grading:** -- 8 written assignments: 62.5% -- 2 online exams: 37.5%

**Exam Format:** Online

---

**PSY 3511 Introduction to Counseling Psychology**

**3 credit(s); prereq 1001;**

**Instructor:** Keenan, Nora K.

**Description:** This course is designed to provide an introduction to the field of counseling psychology. Broadly, topics addressed at the beginning of the course will include the history of the discipline, professions within it, and how counseling psychology distinguishes itself from other specialties within the broader fields of psychology and social work. The bulk of the course will focus on the theories that practicing counseling psychologists and researchers use to inform their work (i.e., formulating case conceptualizations or hypotheses). Additionally, we will integrate a variety of topics of special relevance to counseling psychology throughout the course, including ethics, assessment, working with cultural diversity, empirical support for treatments, and ongoing research in the field regarding processes underlying clinical change and outcomes.

---

**PSY 3604 Introduction to Abnormal Psychology**

**3 credit(s); prereq 1001; Credit will not be granted if credit has been received for: PSY 5604H;**

**Instructor:** Weiszhaar, Orville L

**Description:** This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid information. The field of abnormal psychology (also known as psychopathology) is diverse, as you can see by leafing through the textbook for this course. It includes such topics as bipolar disorder, post-traumatic stress syndrome, AIDS dementia, complex, pedophilia, stuttering, and pathological gambling. Each of these areas, as well as hundreds of others, has its own specialists and research. This course will provide you with a complete, though certainly not exhaustive, overview of each area. As instructor, my aim is to acquaint you with a coherent body of knowledge in a very large and ever-expanding field in which new developments occur daily. This course is a true on-line course. Everything you do, including examinations, is on-line. You do not have to come to the campus for any reason. You get nine months to complete the course. However, when you complete the course, I enter your grade. You go at your own pace. To start the course, you are asked to submit your timetable to finish the course. It is entirely up to you. The class consists of two examinations: a mid-course which covers the first part of the class and a final which covers the second half of the course. There are eight lessons. Each lesson consists of two or three essays an 10 to 15 identifications. Course Outline: Lesson 1: Overview and Introduction Lesson 2: Stress and Adjustment Disorders Lesson 3: Mood, Somatoform, and Dissociative Disorders Lesson 4: Health Problems and Behavior Lesson 5: Midcourse Exam Lesson 6: Personality and Addiction Disorders Lesson 7: Sexuality and Schizophrenia Lesson 8: Cognitive and Childhood Disorders Lesson 9: Clinical Assessment and Therapy Lesson 10: Final Exam Text: Butcher, James N., Mineka, S., & Hooley, J. Abnormal psychology, 14th ed (2009). Boston: Pearson/Allyn & Bacon.

**Exam Format:** Online

---

**PSY 3902W Major Project in Psychology**

**A-F only, 3 credit(s); prereq [2801 or equiv];**

**Instructor:** Waller, Caprice

**Description:** This course is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid information. The field of abnormal psychology (also known as psychopathology) is diverse, as you can see by leafing through the textbook for this course. It includes such topics as bipolar disorder, post-traumatic stress syndrome, AIDS dementia, complex, pedophilia, stuttering, and pathological gambling. Each of these areas, as well as hundreds of others, has its own specialists and research. This course will provide you with a complete, though certainly not exhaustive, overview of each area. As instructor, my aim is to acquaint you with a coherent body of knowledge in a very large and ever-expanding field in which new developments occur daily. This course is a true on-line course. Everything you do, including examinations, is on-line. You do not have to come to the campus for any reason. You get nine months to complete the course. However, when you complete the course, I enter your grade. You go at your own pace. To start the course, you are asked to submit your timetable to finish the course. It is entirely up to you. The class consists of two examinations: a mid-course which covers the first part of the class and a final which covers the second half of the course. There are eight lessons. Each lesson consists of two or three essays an 10 to 15 identifications. Course Outline: Lesson 1: Overview and Introduction Lesson 2: Stress and Adjustment Disorders Lesson 3: Mood, Somatoform, and Dissociative Disorders Lesson 4: Health Problems and Behavior Lesson 5: Midcourse Exam Lesson 6: Personality and Addiction Disorders Lesson 7: Sexuality and Schizophrenia Lesson 8: Cognitive and Childhood Disorders Lesson 9: Clinical Assessment and Therapy Lesson 10: Final Exam Text: Butcher, James N., Mineka, S., & Hooley, J. Abnormal psychology, 14th ed (2009). Boston: Pearson/Allyn & Bacon.

**Exam Format:** Online

---

**PSY 3960 Undergraduate Seminar in Psychology**

**1-5 credit(s), max credits 45, 9 completions allowed; prereq 1001;**

**Instructor:** Malone, Steve
**PSY 3960 Undergraduate Seminar in Psychology**
1-5 credit(s), max credits 45, 9 completions allowed; prereq 1001; 
Instructor: Overmier, J. Bruce

Description: Title: Animal Models of Human Dysfunction. Instructor: Overmier, J Bruce Description: Discovery of the causual mechanisms for human dysfunctions often requires application of the experimental method. But this method may not be appropriate or ethical with humans. Then, animals may be called upon as models for a particular disorder. How are models developed and validated? What can we learn? Have models been successes? Failures? What are the ethical and regulatory considerations for such work? Several exemplar efforts at modeling will be reviewed and discussed. Workload: 30 pages of reading per week, presentations by students. Grades: Based on presentations by students and contributions to discussions.

Style: 20% Lecture, 80% Discussion. Students will report and lead some discussions
Grading: 25% reports/papers, 50% in-class presentation, 25% class participation.

**PSY 3690 Undergraduate Seminar in Psychology**
1-5 credit(s), max credits 45, 9 completions allowed; prereq 1001; 
Instructor: Gavian, Margaret E

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

**PSY 4011 Applied Behavior Analysis**
3 credit(s); prereq 3011, instr consent ;
Instructor: Peterson, Gail Burton

Description: Modern behaviorism and its practical application. Emphasis on functional analyses of behavioral deficits or excesses, and the design and implementation of practical and humane interventions to produce appropriate and meaningful behavior change. Two textbooks, one on the philosophy of behaviorism [The Psychology of B. F. Skinner, O'Donohue & Ferguson (2001)] and another on applications [Applied Behavior Analysis, 2nd Ed, Cooper et al. (2007)]. Lectures, Internet materials and discussions supplement the reading. Grades based on competency evaluations across the semester and a comprehensive final exam. Excellent preparation for the exams of the national Behavior Analysis Certification Board (see www.bacb.com).

Style: 30% Lecture, 20% Discussion, 30% Group Activities, 30% Web Based.
Grading: 30% final exam, 50% quizzes, 20% written homework.
Exam Format: multiple choice

**PSY 4012 Behavior Analysis and Autism**
A-F only, 4 credit(s); prereq Individual auto transportation, instr consent ;
Instructor: Peterson, Gail Burton

Description: Students registered in Psy 4011:Applied Behavior Analysis, 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. Throughout weekly reading assignments 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 7 hours per week (two 3 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, 70% Service Learning. 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 ;
Instructor: Oxenham, Andrew John

Description: The two mains aims 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. Seminars 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 [Jr or sr], psych major) or instr consent ;
Instructor: Weisberg, Yanna J

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

**PSY 4994V Honors Research Practicum**
4 credit(s); prereq [3005W/V or 3001W/V], honors psych; Meets CLE req of Writing Intensive; 
Instructor: Fletcher, Charles R

Description: The major goals of this course are to familiarize you (as a Psychology Department honors major) with research opportunities available in the University of Minnesota Psychology Department, provide you with practical experience conducting psychological research, and prepare you to write an honors thesis in psychology. To achieve these goals you will be required to work approximately nine hours each week on a research project designed and supervised by a faculty member or graduate student, make a formal in-class presentation, and write a 10-15 page research report. You will also be required to attend class each week and complete the required readings and assignments before each class.

Style: 25% Lecture. Work on individual research projects
Grading: 50% reports/papers, 25% in-class presentation, 25% class participation.
Exam Format: none

**PSY 5014 Psychology of Human Learning and Memory**
3 credit(s); prereq 3011 or 3051 or honors or grad student; 
Instructor: Koustaal, 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 also will seek to relate behaviorally observed
variability in memory to specific brain processes. This is an
intensive seminar class. Each week, all students prepare written
responses on specific chosen topics from the assigned readings
(topics are selected from a list of provided options), and present
their topic during the class.

Grading: 20% mid exam, 40% reports/papers, 20% in-class
presentation, 20% class participation.

PSY 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 techniques 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 5202 Attitudes and Social Behavior
3 credit(s); prereq 2201 or instr consent
Instructor: Borgida, Eugene
Description: No sub-field of theory and research is more
identified with the field of social psychology than the study of
attitudes and persuasion processes. The relationship between
attitudes and social behavior and the study of persuasion
processes has a long and distinguished history. This body of
knowledge has made substantial contributions to theory and
research in other sub-fields within psychology and in the other
social sciences, and these connections in turn have enriched the
ways in which social psychologists have studied attitudes and
persuasion. The study of attitudes and persuasion processes has
become more interdisciplinary and multi-method, and as a
result the way in which social psychologists now think about the
relationship between attitudes and social behavior has become
much more complex and nuanced. This course has been
designed to review and examine critically both traditional and
current theory and research on the psychology of attitudes and
persuasion in social psychology and, where appropriate, allied
fields within psychology and in other social sciences. The first
part of the course will cover the historical background of the field,
attitude theory, explicit and implicit measurement issues, the
cognitive structure of attitudes, the complex relationship between
attitudes, beliefs, values, and behavior, and aspects of the
relationship between stereotypes, prejudice and discrimination.
The second part of the course will focus on various social
psychological theories of persuasion (e.g., message learning,
consistency theories, functional approaches, cognitive
frameworks, and especially dual process theories), with an
emphasis on understanding the conditions under which people
are susceptible and resistant to persuasion. Class time will
involve lectures by the instructor and guest lectures, discussion
of the text readings, and an occasional video or in-class
demonstration.
Style: 75% Lecture, 25% Discussion. Discussion of films and
guest lectures.
Grading: 25% mid exam, 25% final exam, 50% reports/papers.
Total number of points based on all exams and papers, graded
on a curve. Extra credit opportunities offered in the form of
critical essay papers.

Exam Format: Multiple choice, short ID questions, essay on
exam #2
PSY 5501 Vocational and Occupational Health Psychology
3 credit(s); prereq 3001W or equiv or instr consent
Instructor: Bubany, Shawn Timothy
Description: Student may contact the instructor or department
for information.

PSY 5708 Organizational Psychology
4 credit(s); prereq [3001W or equiv], 3711 or instr consent
Credit will not be granted if credit has been received for:
PSY 5702;
Instructor: Schmidt, Aaron Michael
Description: Student may contact the instructor or department
for information.

PSY 5865 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: Psychology in International Perspective
3 credit(s), max credits 8; prereq 1001, [jr or sr or grad
student];
Instructor: Viemeister, Neal F
Description: Signal Detection Theory (SDT) is a broad set of
concepts and tools that have found wide application in areas of
psychology, neuroscience, medicine, and in many other fields. In
psychology its contributions are both methodological and
theoretical. Its methodological contributions are a set of
procedures that enable distinction between "sensitivity" and
"bias" and, more generally, techniques for analyzing behavioral
data in both laboratory and practical settings. The theoretical
contributions are that SDT provides a sophisticated framework
for thinking about and describing behavior, especially perceptual
behavior. This lecture course is an introduction to SDT. Although
the emphasis is on applications in psychology, the basic
concepts and tools readily generalize to many other areas. The
course involves mathematics, especially elementary probability
theory. The necessary mathematical skills will be reviewed
during the first 2 weeks. The text is Wickens, T.D., Elementary
Signal Detection Theory, Oxford Univ. Press, 2002. There will be
additional readings, problem sets, and a final paper. Questions?
Contact me at nfv@umn.edu, 625-4024
Style: 60% Lecture, 10% Discussion, 10% Student Presentation.
Grading: 30% mid exam, 30% reports/papers, 25% written
homework, 10% in-class presentation, 5% class participation.

PSY 5960 Topics in Psychology: Psychology in International Perspective
3 credit(s), max credits 8; prereq 1001, [jr or sr or grad
student];
Instructor: Overmier, J. Bruce
Description: Title: Psychology in International Perspective
Instructor: Overmier, J. Bruce Description: The course is aimed at
those who plan a career in psychology. Over a career, one
makes many international contacts. The course will review
approaches to the study, research, and practice of psychology in
various regions of the world. We shall seek out similarities and
contrasts across the regions. The goal is to become aware of
other world views of modern psychology. The course will be
managed as a seminar with students taking turns reporting and
leading discussions. Class Time: 10% lecture, 90% discussion
Work Load: about 40 pages of reading per week, 15-20 pages of
writing per semester. Grades: Based on Seminar presentations
and contributions to discussions.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed; prereq
instr consent, dept consent
Instructor: Iacono, William George

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online
Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class
Schedule.
PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions 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 completions allowed; prereq instr consent , dept consent ;
Instructor: MacDonald III,Angus
Description: This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Course Guide for Twin Cities Campus Spring 2010

Description: The TRiCAM laboratory explores questions in basic cognitive and affective neuroscience, the biological bases of psychopathology, and the measurement of group differences. Methodologies include functional magnetic resonance imaging (fMRI), behavioral genetics (twin and family studies), clinical assessment and cognitive testing. Current research includes (1) understanding how executive control mechanisms, which are associated with prefrontal cortex functioning, interact with attention, affective processing, social interactions and decision-making; (2) evaluating how impairments in such mechanisms may be related to schizophrenia, psychosis and externalizing behaviors and the genes associated with these conditions; and (3) methods development for analyzing fMRI, and psychometric confounds in the measurement of group differences. Eligibility: Must be an undergraduate student at the University of Minnesota; must have taken or be concurrently enrolled in the following courses as prerequisites: PSY 1001, PSY 3005W, & PSY 3604.
Responsible & Expectations: Attend weekly laboratory meetings (including presenting research findings as indicated); attend bi-weekly journal club meetings (including leading one discussion); Complete work as in the laboratory in the amount of 3 hrs per credit per week (generally 2 mornings or afternoons per week); and write an APA-style research lab report (9-15 pp). Duties and activities include but are not limited to: running participants in research studies, data management & analysis, active participation in lab meetings and journal club. Grades will be based on: 1) laboratory attendance and fulfillment of responsibilities; 2) lab meeting attendance (with exceptions to be arranged with the instructor); 3) journal club presentation; 4) final lab report.
PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions 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 completions 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 completions allowed; prereq instr consent, dept consent;
Instructor: Hanson, Jo-Ida C
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed; prereq instr consent, dept consent;
Instructor: Gonzales, Marti Hope
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq instr consent, dept consent;
Instructor: Gewirtz, Jonathan C
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions 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 completions allowed; prereq instr consent, dept consent;
Instructor: Koutsaki, Wilma
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed; prereq instr consent, dept consent;
Instructor: Klimes-Dougan, Bonnie
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq instr consent, dept consent;
Instructor: Engel, Stephen A
Description: Engel lab research/lab meeting

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed; prereq instr consent, dept consent;
Instructor: DeYoung, Colin G
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed; prereq instr consent, dept consent;
Instructor: Schmidt, Aaron Michael
Description: Student may contact the instructor or department for information.

PSY 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed; prereq instr consent, dept consent;
Instructor: Syed, Moin
Description: This directed research is designed for undergraduate and graduate students interested in the topics of narrative, identity, culture, and education, with particular emphasis on a developmental perspective. Students interested in any one of these four topics are encouraged to enroll, but the primary emphasis will be on narrative approaches to development (e.g., how cultural, ethnic, and racial identities are

---

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
constructed and communicated through narrative). We will explore issues pertaining to narrative theory, methods, coding, and analysis; how narrative can complement other forms of inquiry; and how narrative can contribute to social justice research; among other topics. Students are expected to attend a weekly lab group meeting and reading group.

**PSY 8036 Topics in Computational Vision**
3 credit(s), max credits 12, 4 completions allowed; prereq 5031 or 5036 or equiv or instr consent;
Instructor: Kersten, Daniel John
Description: Student may contact the instructor or department for information.

**PSY 8055 Seminar: Cognitive Neuroscience**
3 credit(s); prereq 5015 or instr consent;
Instructor: Marsolec, 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, 3 credit(s), max credits 15, 5 completions allowed; 
prereq 8205, Psych PhD student;
Instructor: Snyder, Mark
Description: Student may contact the instructor or department for information.

**PSY 8208 Social Psychology: The Self**
A-F only, 3 credit(s); prereq Psych background especially in personality and soc psych;
Instructor: Snyder, Mark
Description: Student may contact the instructor or department for information.

**PSY 8212 Proseminar in Political Psychology II**
S-N only, 1 credit(s); prereq Political Psychology grad minor; Credit will not be granted if credit has been received for: POL 8308;
Instructor: Sullivan, John L
Description: Student may contact the instructor or department for information.

**PSY 8502 Assessment in Counseling Psychology**
3 credit(s); prereq Counseling psych grad student or instr consent;
Instructor: Pendergrass, Laura A
Description: Student may contact the instructor or department for information.

**PSY 8511 Counseling Psychology Beginning Practicum:**
General
S-N only, 1-6 credit(s), max credits 18, 18 completions 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, 1-6 credit(s), max credits 6, 1 completion 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: Beckham-Chasnow, Sarra
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: Syed, Moin
Description: Student may contact the instructor or department for information.

**PSY 8544 Vocational and Occupational Health Psychology**
Research
3 credit(s); prereq [8501, 8502, 8503] or equiv, counseling psych grad student, instr consent;
Instructor: Conlon, Amy Lynne
Description: Student may contact the instructor or department for information.

**PSY 8561 Counseling Psychology Advanced Practicum II:**
General
S-N only, 1-6 credit(s), max credits 6, 1 completion 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 completion 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 completions 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, 6 completions allowed; prereq instr consent;
Instructor: MacDonald III, Angus
Description: Student may contact the instructor or department for information.

**PSY 8703 Seminar in Industrial and Organizational Psychology III**
A-F only, 3 credit(s);
Instructor: Campbell, John P
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: Quantitative and Psychometric Methods**
3 credit(s), max credits 15, 5 completions allowed; prereq 5862, 5865, instr consent;
Instructor: Waller, Niels Gordon
Description: Student may contact the instructor or department for information.

**PSY 8935 Readings in Behavioral Genetics and Individual Differences Psychology**
S-N only, 1 credit(s), max credits 10, 10 completions allowed; prereq 5135, 5137 or instr consent;
Instructor: Mc Gue, Matt
Description: Student may contact the instructor or department for information.
PA 1005 Great Debates of Our Time: U.S. Policy and Politics
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Jacobs, Larry
Description: Extraordinary course with Vice President Walter F. Mondale and Professor Lawrence Jacobs will study America’s ongoing constitutional crisis over the authority and roles of the legislative and executive branches. This once-in-a-lifetime course will combine lively readings, stimulating lectures, visits by leading experts, and Vice President Mondale’s unique first-hand experiences. It will cover six presidencies over the past sixty years (three Democratic and three Republican) as well as constitutional history. Students will simulate key presidential decisions. Grades are based on class participation, short papers and a final examination. The course was taught last year for the first time. Student excitement persuaded the instructors to offer this unique course a final time. In addition to Vice President Mondale’s participation, visitors will include Seymour Hersh (leading journalist of presidential national security policy making), James Comey (Deputy Attorney General during Bush administration), and Jane Meyer (New Yorker reporter).
Style: 40% Lecture, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 35% final exam, 35% reports/papers, 15% special projects, 15% attendance.

PA 1061W 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: Donovan, Dennis Michael
Description: Introduction to leadership theory, personal development, interpersonal relations, leadership at University of Minnesota. Personal assessment, written/verbal presentation, resume writing, electronic communication, goal setting, coping with group dynamics.
Grading: 20% reports/papers, 20% in-class presentation, 20% class participation, 20% problem solving, 20% other evaluation.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EDPA 1301W; Meets CLE req of Writing Intensive;
Instructor: Christopherson, Christen Ruth
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.
Style: 100% Web Based. Web-based work includes discussion forum and 2 student presentations.
Grading: 50% Web Based. Web-based work includes discussion forum and 2 student presentations.

PSY 8937 Seminar in Human Behavioral Genetics
3 credit(s), max credits 6, 3 completions allowed; prereq 5137 or Instr consent;
Instructor: Mc Gue, Matt
Description: Student may contact the instructor or department for information.

PSY 8960 Graduate Seminar in Psychology
1-4 credit(s), max credits 36, 9 completions allowed; prereq Psychology grad student or instr consent;
Instructor: Simpson, Jeffrey A
Description: Student may contact the instructor or department for information.

PSY 8960 Graduate Seminar in Psychology
1-4 credit(s), max credits 36, 9 completions allowed; prereq Psychology grad student or inst r consent;
Instructor: Waller, Niels Gordon
Description: Student may contact the instructor or department for information.

PA 1401 Public Affairs: Community Organizing Skills for Public Action
A-F only, 3 credit(s); Meets CLE req of Citizenship/Publ Ethics Theme;
Instructor: Donovan, Dennis Michael
Description: This is a hands-on introduction for undergraduate students wanting to develop skills, confidence, and knowledge to make positive change in public affairs. It shows how to get past the culture of critique and pessimism that often dominates in higher education. It acquaints students with hopeful examples of successful citizen organizers and organizations working to tackle tough public problems, from racism to teen pregnancy, failing schools to environmental degradation. The course will educate students about a new, broad movement for civic revitalization beginning to stir in Minnesota, and how students can make contributions to it. In PA 1401, students will gain concepts and practical skills such as thinking politically, forming partnerships across lines of difference, understanding diverse self-interests, mapping power, and knowing about the culture, history and social networks needed to make change.
Style: 15% Lecture, 50% Discussion. Small group public work actions
Grading: 20% reports/papers, 20% in-class presentation, 20% class participation, 20% problem solving, 20% other evaluation.

PSY 8960 Graduate Seminar in Psychology
1-4 credit(s), max credits 36, 9 completions allowed; prereq Psychology grad student or instr consent;
Instructor: Waller, Niels Gordon
Description: Student may contact the instructor or department for information.

Public Affairs 225 HHHCtr
personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

Grading: 30% special projects, 4% written homework, 8% reflection paper, 30% in-class presentation, 25% class participation, 3% other evaluation.

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: 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 effective leadership and learn about the importance of personal development.

Grading: 30% special projects, 4% written homework, 8% reflection paper, 30% in-class presentation, 25% class participation, 3% other evaluation.

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: Stallman, Elizabeth M
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.

Grading: 30% special projects, 4% written homework, 8% reflection paper, 30% in-class presentation, 25% class participation, 3% other evaluation.

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 effective leadership and learn about the importance of personal development.

Grading: 30% special projects, 4% written homework, 8% reflection paper, 30% in-class presentation, 25% class participation, 3% other evaluation.

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: Ellsworth, Chad
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

Style: 20% Lecture, 5% Film/Video, 50% Discussion, 20% Small Group Activities, 5% Student Presentation.
Grading: 40% reports/papers, 20% reflection paper, 20% in-class presentation, 20% class participation.

PA 3003 Nonprofit and Public Financial Analysis and Budgeting A-F only, 3 credit(s);

Instructor: Anderson, Michael J
Description: Student may contact the instructor or department for information.

PA 3961 Leadership, You, and Your Community A-F only, 3 credit(s); prereq [1961W or EdPA 1301W], [jr or sr]; Credit will not be granted if credit has been received for: EDPA 3302;

Instructor: Christopherson, Christen Ruth
Description: This course will examine leadership and leadership capacities within the context of social change and public work. Students taking this course will have the opportunity to examine their own views of leadership and social change, learn about leadership theory and core concepts of Public Achievement, and apply knowledge to practice utilizing the Public Achievement model. Particular attention is given to group leadership and the effectiveness of groups and organizations accomplishing change. There are a few aspects to the content of this course which make it unique when compared to traditional collegiate 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 the Public Achievement group. More information about Public Achievement is available in the subsequent pages of this syllabus.

Style: 10% Lecture, 5% Film/Video, 20% Discussion, 50% Small Group Activities, 10% Student Presentation, 5% Guest Speakers. The major portion of this class is the Public Achievement process.
Grading: 20% final exam, 20% reports/papers, 5% quizzes, 5% attendance, 10% journal, 35% in-class presentation, 5% class participation.
Exam Format: Final exam is a take-home written essay.

PA 3961 Leadership, You, and Your Community A-F only, 3 credit(s); prereq [1961W or EdPA 1301W], [jr or sr]; Credit will not be granted if credit has been received for: EDPA 3302;

Instructor: Asmundson, Aaron R
Description: Leadership and leadership capacities from multicultural/multidimensional perspectives. Students examine their own views on leadership. Leadership theory/practice, group dynamics/behavior, applying knowledge.

PA 3961 Leadership, You, and Your Community A-F only, 3 credit(s); prereq [1961W or EdPA 1301W], [jr or sr]; Credit will not be granted if credit has been received for: EDPA 3302;

Instructor: Fredrickson, Brian Steven
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 history, current status, and stories about the issue of poverty as a context. As the theme for the course, many portions of the class content and discussion will explore the issue of poverty. This method is meant as an example of public leadership happening within the intricacies of a social movement and issue. Another major content component of this course is the Public Achievement model. A little less than half of the assigned class days will be dedicated to working within smaller groups (encompassing about 1/3 of the class in each) on a Public
Achievement project. For these projects, each of the instructors, in addition to a teaching assistant, will be assigned as a coach for one Public Achievement group. More information about Public Achievement is available in the subsequent pages of this syllabus.

**Style:** 10% Lecture, 5% Film/Video, 20% Discussion, 50% Small Group Activities, 10% Student Presentation, 5% Guest Speakers. The major portion of this class is the Public Achievement process.

**Grading:** 20% final exam, 20% reports/papers, 5% quizzes, 5% attendance, 10% journal, 35% in-class presentation, 5% class participation.

**Exam Format:** Final exam is a take-home written essay.

**PA 3971 Leadership Minor Field Experience**

A-F only, 3 credit(s); prereq [3961W or EDPA 3302W] with grade of at least C; Credit will not be granted if credit has been received for: EDPA 3402; Instructor: Ve Lure Roholt,Christine Elizabeth

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

**PA 5002 Introduction to Policy Analysis**

A-F only, 1.5 credit(s); prereq Major in public policy or instr consent; Instructor: Husbands Feeling,Kaye

**Description:**

**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: Barnett,Michael Nathan

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

**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: Oxendine,Alina Renee

**Description:**

**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: Soss,Joe

**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 5002 Economics For Policy Analysis and Planning II**

Macroeconomics for Public Policy

A-F only, 0 credit(s), max credits 4.5, 3 completions 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 Economics For Policy Analysis and Planning II**

Problem-Based Learning in Econ for Pol Analysis I

A-F only, 1.5 credit(s), max credits 4.5, 3 completions allowed; prereq [5021 or equiv], public policy major or instr consent; Instructor: Hoenack,Stephen A

**Description:**

**PA 5022 Economics For Policy Analysis and Planning II**

Prob-Based Learning in Econ for Policy Analysis II

A-F only, 1.5 credit(s), max credits 4.5, 3 completions allowed; prereq [5021 or equiv], public policy major or instr consent; Instructor: Hoenack,Stephen A

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

**PA 5022 Economics For Policy Analysis and Planning II**

Economics of Social Insurance

A-F only, 3 credit(s), max credits 4.5, 3 completions allowed; prereq [5021 or equiv], public policy major or instr consent; Instructor: Hanratty,Maria J

**Description:**

**PA 5032 Intermediate Regression Analysis**

A-F only, 2 credit(s); prereq [[5031 or equiv], major in [public policy or [sci, tech, and environ policy]] or instr consent; Instructor: Kudrie,Robert T

**Description:** Bivariate/multivariate models of regression analysis, assumptions behind them. Problems using these models when such assumptions are not met.

**PA 5033 Multivariate Techniques**

A-F only, 2 credit(s); prereq [[5031 or equiv], major in [public
policy or [sci, tech, and environ policy])) or instr consent ; [5032 or equiv] recommended; 
Instructor: Kleiner,Morris M 
Description: Public affairs topics using maximum-likelihood estimation approaches.

PA 5036 Regional Economic Analysis 
A-F only, 1.5 credit(s); prereq Major in public policy or 
[science, tech, env policy] or urban/regional planning or instr consent ; 
Instructor: Assaad,Ragui A 
Description: 

PA 5037 Regional Demographic Analysis 
A-F only, 1.5 credit(s); prereq Major in public policy; or 
science, tech, and env. policy; or urban and regional 
planning; or instructor consent; 
Instructor: Assaad,Ragui A 
Description: 

PA 5038 Analytics for Leaders I 
A-F only, 2 credit(s); prereq Major in public affairs or instr consent ; 
Instructor: Husbands Fealing,Kaye 
Description: Student may contact the instructor or department for information.

PA 5039 Analytics for Leaders II 
A-F only, 2 credit(s); prereq Major in public affairs or instr consent ; 
Instructor: Henry,Matthew Joseph 
Description: Student may contact the instructor or department for information.

PA 5080 Capstone Preparation Workshop 
S-N only, 1 credit(s); prereq Concurrent registration is 
required (or allowed) in 8081; 
Instructor: DeCramer,Gary M 
Description: Student may contact the instructor or department for information.

PA 5102 Organization Performance and Change 
3 credit(s); prereq 5011 or 5941 or grad nonprofit mgmt cert 
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 unifying 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: ?

Style: 40% Lecture, 30% Discussion, 15% Student Presentation, 15% Guest Speakers.
Grading: 45% reports/papers, 30% special projects, 25% class participation.

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: 

PA 5113 State and Local Public Finance 
3 credit(s); prereq Grad or instr consent ; 
Instructor: Zhao,Zhirong Jerry 
Description: Theory/practice of financing. Providing public services at state/local level of government. Emphasizes integrating theory/practice, applying materials to specific policy areas, and documenting wide range of institutional arrangements across/within the 50 states.

PA 5122 Law and Public Affairs 
3 credit(s); prereq Grad or instr consent ; 
Instructor: STAFF 
Description: Overview of evolution of American legal system. Role of courts, legislatures, and political actors in changing law. How law is used to change public policy.

PA 5190 Topics in Public and Nonprofit Leadership and Management: Social Entrepreneurship 
3 credit(s), max credits 9, 3 completions allowed; prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent ; 
Instructor: Barreiro,Terri Diane 
Description: Student may contact the instructor or department for information.

PA 5190 Topics in Public and Nonprofit Leadership and Management: Integrative Leadership 
2 credit(s), max credits 9, 3 completions allowed; prereq 5011 or 5941 or grad nonprofit mgmt cert or instr consent ; 
Instructor: Vaaler,Paul Martin 
Description: This unique seminar is devoted to exploring, investigating, discussing, understanding, and, in the process, developing basic concepts, practices, people and organizations associated with "integrative leadership." By these two words we mean something simple: multi-sector partnerships to address strategic challenges for mutual benefit. But simple is not necessarily easy. The course focuses on complex challenges that cross government, business, and nonprofit sectors and require leaders who can bring together people and organizations from both sectors to address local, national, even global
challenges that can transform affected businesses, governments and civil society organizations for better or worse.

**PA 5204 Urban Spatial and Social Dynamics**

3 credit(s); prereq Major in urban/ regional planning or instr consent 

**Instructor:** Schrock, Gregory R  
**Description:** Student may contact the instructor or department for information.

**PA 5215 Computer Applications in Land Use Planning**

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

**Instructor:** Bolan, Richard Stuart  
**Description:** Student may contact the instructor or department for information.

**PA 5221 Private Sector Development**

3 credit(s); prereq Grad or instr consent 

**Instructor:** Brown, Peter H  
**Description:** While policy-makers, public administrators, planners, and members of the community all play their parts, in the end, it is private sector developers who really build our cities. Developers use a wide variety of tools, skills, and resources to identify, analyze, and capitalize on opportunities that often are not apparent to their competitors or the public. Developers are also very entrepreneurial, as they play for high stakes and must possess an extraordinary tolerance for both ambiguity and risk if they are to realize their creative visions and their anticipated profits. This course is for those students interested in gaining an understanding of how the real estate development process works from the viewpoint of the private developer. The course is designed to promote an understanding of the structure of urban real estate markets, the techniques of analysis and planning for real estate development, and the leadership and management skills required to see a project through to completion. It emphasizes quantitative methods including site and building analysis, market analysis, and economic analysis through the creation and manipulation of pro-forma financial statements. At the same time students will be required to consider qualitative issues such as a developer's background, temperament, goals, and access to resources as well as the importance of fit between a developer, a project, and other team members and actors including equity partners and lenders, architects and builders, government, and other local interests. By applying these qualitative and quantitative methods of analysis to actual projects, students will gain personal insight into the developer’s decision-making process. Through facilitated discussion of case studies as well as exercises, mini-lectures, and guest presentations, students will come to understand how, in a process of creative synthesis, developers combine these tools with money, social and political capital, and personal skills to implement projects and bring their grand plans to fruition. The focus of the course will be on the acquisition, development, ownership, operation, and disposition of rental real estate, with an emphasis on the four main product categories - commercial, retail, industrial, and multi-family residential. Attention will also be given to for-sale housing and condominiums, land development, non-profit development, and large scale urban redevelopment. The course will consider the reconciliation of private interests with public goals, however in doing so it will take a distinctly private market viewpoint.

**Style:** 20% Lecture, 70% Discussion, 5% Field Trips, 5% Guest Speakers  
**Exam Format:** The final exam will be a take home case study exam.

**PA 5251 Strategic Planning and Management**

A-F only, 3 credit(s); prereq Grad student or instr consent 

**Instructor:** Walkington, Thomas A  
**Description:** Student may contact the instructor or department for information.

**PA 5261 Housing Policy**

A-F only, 3 credit(s); prereq Grad or instr consent 

**Instructor:** Goetz, Edward Glen  
**Description:** Institutional/ environmental setting for housing policy in the United States. Competing views of solving housing problems through public intervention in the market. Federal/local public sector responses to housing problems.

**PA 5290 Topics in Planning: Immigrants and Cities**

3 credit(s), max credit(s) 9, 3 completions allowed; prereq Grad student or instr consent 

**Instructor:** Allen, Ryan Patrick  
**Description:** This course examines the impact of contemporary immigration in the U.S. on urban planning and public affairs. Specifically, it engages several important questions: How have immigrants changed cities in the U.S.? What kind of social, political and economic experiences do immigrants have once they arrive in the U.S.? Should urban planners and those engaged in public affairs more broadly care about immigrants in America? The course proceeds in five sections. 1. Immigration Theory: Why does immigration happen? What is the historical context of immigration in the U.S.? 2. Immigrant Demographic Patterns: Where and how do immigrants in the U.S. live? We will begin with an examination of immigrant settlement patterns in the U.S. and then turn our attention to the contexts where immigrants live. 3. Immigrant Labor: We will examine recent studies of immigrant economic mobility and how immigrants have helped to restructure urban and rural labor markets. This section concludes with a look at one of the most contentious debates in America today: What is the economic impact of immigrants on native born workers, local economies and the national economy? 4. Social Lives of Immigrants: This section focuses on social processes within immigrant communities. We will first examine how immigrants create community and then turn to the reception that immigrants encounter in America and how immigrants and native born individuals ?get along.? We will conclude this section with a look at nativist attitudes in America and how these attitudes affect immigrant incorporation. 5. Working with Immigrants: At the heart of the class is the belief that understanding recent immigration to the U.S. is a key component of any planner or public policy maker’s tool box. This section of the course will focus on case studies of effective (and ineffective) practice for working with immigrants in planning and public policy contexts.

**PA 5311 Program Evaluation**

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

**Instructor:** Bloomberg PhD, Laura L  
**Description:** This course will explore the complexities and realities of conducting evaluation studies in community-based settings, including schools, non-profit organizations, and collaborative initiatives. The class will use a case study approach to compare and contrast different evaluation projects—from establishing guiding evaluation questions to instrumentation, data collection, data analysis, and presentation of findings to multiple audiences. Primary emphasis will be on evaluation ethics, theory-based evaluation and logic modeling in real world settings. Over the course of the semester, students will design and develop their own comprehensive evaluation plan for a selected program. “The art of evaluation involves creating a design and gathering information that is appropriate for a specific situation and particular policy making context. In art there is no single, ideal standard. Beauty is in the eye of the beholders, and the evaluation beholders include a variety of stakeholders: decision makers, policy makers, funders, program managers, staff, program participants, and the general public. Any given design is necessarily an interplay of resources, practicalities, methodological choices, and personal judgments by the people involved.” (Michael Quiro P. Patton, 2004)

**Style:** 30% Lecture, 30% Discussion, 20% Small Group
PA 5451 Immigrant Health Issues
A-F only, 3 credit(s);
Instructor: Councilman, Robin M.
Description: This course focuses on how to access demographic, health, and background information on immigrant populations; characteristics and health needs of immigrants; designing culturally competent health programs; and advocating for change to promote immigrant health. Community visits required. Highly structured online course with weekly reading, community work, research, video, and on-line posting assignments. Also 1 research project for 2 credit students, 2 for 4 credit students. 2 big community work assignments.
Style: 10% Film/Video, 90% Web Based. On-line discussion and small group on-line chats are required.
Grading: 40% reports/papers, 15% quizzes, 15% class participation, 30% other evaluation. Please see the syllabus as the grading is very different between 3 and 4 credit students.

PA 5452 Immigration and Public Policy
3 credit(s); prereq Grad student or instr consent;
Instructor: Fennelly, Katherine
Description: Issues of international migration and the integration of immigrants and refugees are among the most compelling and controversial public policy questions of our age. The purpose of this course is to give students an introduction to the most important issues and to authors who have written about proposals for immigration reform in the US, Canada, Europe and Asia. This semester we will pay particular attention to proposals for comprehensive immigration reform in the US Congress. Course outcomes: After successfully completing this course students should be able to: 1. Discuss and evaluate theories of historical and contemporary migration 2. Analyze the political dimensions of immigration 2. Compare and contrast European, Asian and North American policies related to immigration 3. Prepare an in-depth analysis of migration issues that contrasts several of the countries covered in the course 4. Assemble and evaluate the evidence supporting opposing views on immigration policies.

PA 5490 Topics in Social Policy: Search for Children & Youth Policy in the US
3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent;
Instructor: Bloomberg, Laura L
Description: SEARCHING FOR YOUTH POLICY.....The United Nations Convention on the Rights of the Child was adopted by the U.N. General Assembly in 1989 and ratified by all nations except the United States and Somalia. This begs the question: does the United States have a comprehensive Youth Policy or set of policies? Do we have a common understanding of the rights and responsibilities of youth in our society and is this reflected in the policies that most impact young people? Does it matter? Why should we care? This seminar-style course will explore these and related questions as we grapple with the impact of youth policy (or the lack thereof) on questions of economic development, formal and non-formal learning, health and human services, housing, immigration, juvenile justice, national security, and youth engagement.
Style: 50% Discussion, 10% Small Group Activities, 20% Student Presentation, 20% Guest Speakers.

PA 5490 Topics in Social Policy: Health Care Policy and Medical Care Provision
1 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent;
Instructor: Jacobs, Larry
Description: Health policy and medical care are undergoing profound change. This one-credit course will provide an overview of the major issues and players. The course will be taught through presentations by important leaders in government and the private sector, with a primary focus on Minnesota. It is led by Professor Lawrence Jacobs and Keith Hallieand, a leading legal expert on health policy and a founding partner of the law firm Hallieand Lewis Nian & Johnson.

PA 5490 Topics in Social Policy: Immigration and Film
3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent;
Instructor: Fennelly, Katherine
Description: We live in a time when images and messages disseminated through popular media dwarf other educational forums. Films that capture the public attention promote particular views of social issues and can inspire action and altruism or reinforce stereotypes and prejudices. In the words of cultural observer, Henry Giroux, Films do more than entertain; they offer up subject positions, mobilize desires, influence us unconsciously and help to construct the landscape of American culture. Deeply imbricated within social and material relations of power, movies produce and incorporate ideologies that represent the outcome of struggles marked by the historical realities of power and the deep anxieties of the times?put simply, films both entertain and educate[i]. In this course film is used as a vehicle to explore the meanings of nationality, citizenship, and belonging, and the human impacts of government policies. This
PA 5521 Development Planning and Policy Analysis
4 credit(s); prereq 5031 or instr consent; [5501 or Concurrent registration is required (or allowed) in 5501 or 8204 or Concurrent registration is required (or allowed) in 8204] recommended;
Instructor: Aseaad,Ragui A
Description: Techniques of development planning and policy analysis at national and program/project levels. Open economy macroeconomic analysis, analysis of external shocks and government interventions, project appraisal and cost-benefit analysis, experimental and non-experimental methods of program impact evaluation.

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 5790 Topics in Science, Technology, and Environmental Policy: Water Policy
3 credit(s), max credits 9, 3 completions allowed; prereq Grad or instr consent;
Instructor: Swackhamer,Deborah L
Description: Student may contact the instructor or department for information.

PA 5801 Global Public Policy
3 credit(s); prereq Major in public affairs or public policy or instr consent;
Instructor: Kudrle,Robert T

PA 5801 Global Public Policy
3 credit(s); prereq Major in public affairs or public policy or instr consent;
Instructor: Cohen,Dara Kay

PA 5890 Topics in Foreign Policy and International Affairs: Crisis Management
1.5 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent;
Instructor: Andrews,Steven Peter
Description: Selected topics.

PA 5890 Topics in Foreign Policy and International Affairs: Bilateral & Multilateral Diplomacy
2 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent;
Instructor: Atwood,J. Brian
Description: Student may contact the instructor or department for information.

PA 5890 Topics in Foreign Policy and International Affairs: Globalization & the World Food Economy
3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent;
Instructor: Johnson,Robbin S
Description: The course examines the effects of markets, governmental policies and the process of globalization on world food, feed and fuel from biomass production. The course begins with a look at why agricultural issues are important both in developed countries and in poorer countries struggling to escape their poverty and hunger. It reviews the kinds of policy choices that are made with respect to agricultural production, international trade and, more recently, biofuels development. It looks at how these issues and the policy choices made with respect to each have evolved. It compares those choices with their effects. And it asks whether alternative policy choices would be better, in what ways and for whom. (See syllabus on Course Guide for more information.)

PA 5890 Topics in Foreign Policy and International Affairs: International Security
3 credit(s), max credits 9, 3 completions allowed; prereq Grad student or instr consent;
Instructor: Cohen,Dara Kay
Description: Student may contact the instructor or department for information.

PA 5912 Politics of Public Affairs and Civic Engagement A-F only, 3 credit(s); prereq Grad student or instr consent;
Instructor: Boyte,Harry C
Description: The Politics of Civic Engagement will explore the growing cross-disciplinary "civic field" whose centerpiece is civic agency -- the capacities of communities and whole societies to work collaboratively on common challenges and tasks. Civic capacity involves questions of institutional design and cultural life, as well as individual skills and dispositions. We will also explore the potential for public affairs professionals to be agents of change and civic capacity building.
Style: 20% Lecture, 30% Discussion, 20% Small Group Activities, 15% Student Presentation, 15% Service Learning.

PA 5920 Skills Workshop: Community Organizing for Effective Public Policy
2 credit(s), max credits 12, 12 completions allowed; prereq Grad student or instr consent;
Instructor: Donovan,Dennis Michael
Description: In an effort to better fulfill the Humphrey Institute's mission to ?inspire, educate, and support innovative leaders to advance the common good in a diverse world,? this practicum advances the idea of democracy as a society created through public work. This learning experience will engage class participants to think about their place as professionals and as citizens, and teach how to effectively create change. Practicum participants will learn concepts of broad-based organizing, including power and empowerment, self-interest, public life, one-to-one relational meetings, and skill development for public problem-solving.

PA 5920 Skills Workshop: Measuring the Fairness of 2008 MN Senate Recount
1 credit(s), max credits 12, 12 completions allowed; prereq Grad student or instr consent;
Instructor: Diamond,Patrick Charle
Description: Student may contact the instructor or department for information.

PA 5920 Skills Workshop: Effective Grantwriting in Public Affairs
1.5 credit(s), max credits 12, 12 completions allowed; prereq Grad student or instr consent;
Instructor: Rojas,Allison Langell
Description:

PA 5920 Skills Workshop: Foundations of Ethical Practice in Public Affairs
1 credit(s), max credits 12, 12 completions allowed; prereq Grad student or instr consent;
Instructor: DeCramer,Gary M
Description: 1. Class title: PA 5920 Foundations of Ethical Practice in Public Affairs 2. Course description: An exploration of the linkage between each student's core ethical values and the formation documents that have shaped democracy in the United States, or in her or his homeland. 3. Course objectives: Students will deepen the sense of their own ethical values, and explore those values in the context of creating and transforming democratic institutions. The day dialogue and writing assignment will seek to answer these questions: What is the linkage between ethical practice and the calling to be engaged in public affairs? What is the ethical imperative contained in the founding documents? What does this mean to practitioners of public affairs? 4. Major readings to be included in reading packet: Bush, George W. (2005) Second Inaugural Address. Church, Forrest.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
PA 5920 Skills Workshop: Stakeholder Anal, SWOT Analysis & Causal Mapping

0.5 credit(s), max credits 12, 12 completions allowed; prereq Grad student or instr consent

Instructor: Munnich Jr, Lee William

Description: Participants will be introduced to three crucial methods for designing effective public policies, plans and projects. They will practice applying the methods to specific public problems and organizational challenges. Learning objectives -- Improved capacity to identify and analyze stakeholders o Improved ability to use power v. interest grids, influence diagrams, bases of power-directions of interest diagrams -- Greater understanding of SWOT analysis o Improved ability to apply this method to an organizational challenge -- Greater understanding of causal mapping o Improved skill in using mapping to develop organizational strategies

PA 5941 Leadership for the Common Good

4 credit(s); prereq Major in public affairs or instr consent

Instructor: DeCramer, Gary M

Description: DRAFT Syllabus Spring 09 PA 5941 Leadership for the Common Good Wed. 5:45 pm 9:05 pm Instructor Gary DeCramer Room 241 Humphrey Institute gdecramer@umn.edu office: 612-625-3458 home: 651-686-5535 hours: 4:00 to 5:15 Wednesdays or by appointment Course Goals Understand the American Creed: A Spiritual and Patriotic Primer. St. Martin’s Press: New York. 30-42, 132-140. Declaration of Independence. Goodpaster: Leadership (2004). Ethical Practice and Submission of the Narrative. Schuster: New York. 30-42, 132-140. Declaration of Independence. Gettysburg: The Words That Remade America. Simon and Schuster: New York. 90-119, 177-189, 261-263. Method of evaluation: Grades will be based upon class participation, evidence of completion of readings, completion of a narrative of ethical practice and submission of the narrative one week after class is completed. The recommended length of the narrative is 10 pages, and it should link the student’s personal ethical values to the ethical imperative contained in a formative document of the student’s choice. 6. Number of credits: 1 credit 7. Grading basis (A/F or S/N): 8. Instructor: Gary DeCramer 9. Audience: Current HHH Student 10. Course prerequisites: Current HHH Student 11. In-class contact time: 12.0 hours assignments o Build learning relationships o Prepare for class sessions Credit Requirements and Grading for A-F Participation -- Attend class and study groups; contribute to discussion. Post initial sketch on web; post study group notes. (20%) Reflection Leader? Each person will serve as a reflection leader. (5%) Leadership Case and Class Memos a. Initial leadership case statement. If instructor requires revisions, a new draft responding to their comments must be posted later. See course website and grid for further guidance. (3%), b. Outline for full leadership case analysis. See course website for further guidance. (7%) c. Class Memo (30%). These readings could be selected so that they contribute to the full leadership case analysis, and can count as outside readings.

PA 8001 Transforming Public Policy

A-F only, 4 credit(s); prereq 5941 or instr consent

Instructor: Classen, Julia E

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

PA 8081 Capstone Workshop: Managing Collaborations

A-F only, 3 credit(s); prereq [Grad major in [public affairs or public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent

Instructor: Stone, Melissa M

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

PA 8081 Capstone Workshop: Economic & Community Development

A-F only, 3 credit(s); prereq [Grad major in [public affairs or 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: This capstone workshop course is part of a Regional Competitiveness Project being conducted for the Twin Cities Regional Council of Mayors and the Minnesota Department of Employment and Economic Development (DEED). Three teams of graduate students will prepare economic development strategy reports for the Regional Council of Mayors, and two teams will prepare strategy reports for regional clients in Greater Minnesota. Each strategy report will focus on a regional industry cluster and consist of three parts: 1) a diagnosis of a regional industry cluster, 2) a vision for the future, and 3) an action plan in accord with that vision. While this course is designed as a capstone experience, teams will meet Humphrey Institute requirements, graduate students from the Carlson School of Management are strongly encouraged to participate in this workshop. The Regional Council of Mayors and DEED are particularly interested in drawing from the joint business, planning and public policy talents of the two graduate programs in developing a regional investment strategy for the Twin Cities and linking that strategy to Greater Minnesota. The workshop topic is “Microeconomics of Competitiveness: Firms, Clusters, and Economic Development,” based on a case-study course developed by Harvard Business School Professor Michael Porter. The course explores determinants of national and regional competitiveness building from the perspective of firms, clusters, sub-national entities, national groups, and groups of neighboring countries. It focuses on the sources of national or regional productivity, which are rooted in the strategies and operating practices of locally based firms, the vitality of clusters, and the quality of the business environment in which competition takes place. The course examines both advanced and developing economies and addresses competitiveness at multiple levels - nations, sub-national units such as states or provinces, particular cluster, and neighboring countries. The course is concerned not only with government policy, but also with the roles that firms, industry, associations, universities, and other institutions play in competitiveness. In modern competition, each of these institutions has an important and evolving role in economic development. More specifically, the need of creating and sustaining an economic strategy for a nation, state or region is a daunting
challenge. The course explores not only theory and policy but also the organizational structures, institutional structures, and change processes required for sustained improvements in competitiveness. The course is taught using case studies from all major regions of the world. The purpose of the course is to expose students to some of the most successful countries and regions. In addition to cases, there are readings, a series of video lectures by Michael Porter, and videotaped appearances by guests who are national, regional, or business leaders involved in the cases studied.

Grading: 55% reports/papers, 15% reflection paper, 15% in-class presentation, 5% class participation, 10% other evaluation. See syllabus for more detail on grading.

Exam Format: No exam.

**PA 8081 Capstone Workshop: Nonprofit-Government Relationships**

A-F only, 3 credits(s); prereq [Grad major in [public affairs or 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 (MAPA). 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 2010, students will work on one of three projects. Classroom seminars will focus on relevant readings, workshop experiences and supporting field-based research: 1) Resources for Child Caring -- exploring the possibilities of becoming an early childhood intermediary for systems improvement in the state. 2) Hennepin County Human Services -- organizational restructuring process for serving low-income families. 3) Grassroots Solutions -- community engagement process and methods for state-wide civic organizations.

**PA 8081 Capstone Workshop: Sustainability Planning**

A-F only, 3 credits(s); prereq [Grad major in [public affairs or public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses or instr consent;

Instructor: Sloterback, Carissa Schively

Description: The capstone course is intended to serve as a culminating experience in the Master of Urban and Regional Planning (MURP) program, allowing students in integrative knowledge from past coursework and internships in a practical project for a real world client. The course provides experience in preparing planning documents, organizing planning processes, and interacting with practitioners and elected and appointed officials. Students will use their writing, presentation, graphics, mapping, interviewing, and research skills as part of course. Students will engage in one of two projects for the course, focused on sustainability planning at the local government level. These projects are detailed in separate handouts to be distributed on the first day of class. The majority of the course will be focused on student work, completed in groups, for the two projects. At the end of the course, students should have gained knowledge and experience in the following areas: ? Theoretical perspectives on sustainability, ? History of sustainable development, ? Range of approaches to addressing sustainability in local plans and policies, ? Organizing and implementing a planning process, ? Engaging group members around a common goal, ? Preparation of professional planning documents, and ? Presentation of planning outcomes to practitioners and/or decision-makers.

**PA 8082 Working Group: Global Policy**

A-F only, 3 credits(s); prereq [Grad major in [public policy or [urban and regional planning] or [science, technology, environment policy]], completion of core courses or instr consent;

Instructor: Kudrie, Robert T

Description: This working group (as others) aims to help 2nd year (and beyond) MPP students complete their individual professional papers by the end of Spring semester. All members are expected to make some progress on their papers between meetings. Each meeting will include: 1) a brief report on your progress 2) participation in the discussion of others' work 3) delivery of promised specific reactions to assigned colleagues? work The group will begin by asking for volunteers to comment in writing on the work plans or the work product of one other person. Following our second meeting, most of your effort outside of class will be devoted to: 1) making progress on your own paper and 2) providing useful comments on draft sections of various lengths of someone else’s paper. Both the interim product and the comments on it must be provided to the instructor prior to the class meeting.

**PA 8202 Networks and Places: Transportation, Land Use, and Design**

A-F only, 4 credits(s); prereq credit will not be granted if credit received for: 8212; [urban and regional planning] grad student or instr consent;

Instructor: Cao, Jason

Description: Pick up a newspaper or watch the news and you're likely to find a story about transportation problems in the Twin Cities, 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, rail investments, freeway expansion, value...
pricing, and so on. These policies would impact both transportation and land use because the latter two are intrinsically 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 new development is likely to affect patterns of travel for residents of the area, which may in turn demand new transportation investments over time. Therefore, an understanding of land use-transportation interactions is critical to the solution of transportation and its related problems confronting large metropolitan areas. In this course, the topics covered are not linear, and discussions may sometimes jump ahead or jump back or otherwise run in circles. I have chosen to provide a balance between theory and research, and policy and practice; all students will benefit from exposure to all of these topics. Naturally, some students will find some topics of more interest than others, and the assignments are designed to allow students to explore in more depth than is possible in class a topic of their own choosing. 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 will be able to understand the theories behind land use and transportation interactions; steps in spatial evolution of cities related to transportation infrastructure; the impacts of transportation infrastructure on land use development and impacts of land use on travel patterns; urban transportation planning processes; land use and transportation policy instruments, and their political barriers; Further, this course aims to promote team work through assignments, case studies, and labs. This course also trains students to deliver their ideas through paper and oral communication. The open debates will encourage students to become an independent and deliberate thinker. All are essential for successful planners and policy makers.

PA 8204 Creating Good Work: Economic and Workforce Development
A-F only, 4 credit(s);
Instructor: Schroek,Gregory R
Description: Student may contact the instructor or department for information.

PA 8302 Applied Policy Analysis
A-F only, 4 credit(s); prereq Intermediate microeconomics, introduction to econometrics;
Instructor: Myers Jr,Samuel L
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;
Instructor: A-F only, 4 credit(s);
Barnett,Michael Nathan
Description: None.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions 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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq instr consent;
Instructor: Jacobs,Larry
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions 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 completions allowed; prereq instr consent;
Instructor: Swackhamer,Deborah L
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;
Instructor: Myers Jr,Samuel L
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions 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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq instr consent;
Instructor: Kudlir, Robert T
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;
Instructor: Aseasad, Ragui A
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq instr consent;
Instructor: Zhao, Zhirong Jerry
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;
Instructor: Soss, Joe
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;
Instructor: Allen, Ryan Patrick
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
1-3 credit(s), max credits 6, 6 completions allowed; prereq instr consent;
Instructor: Cohen, Dara Kay
Description: Student may contact the instructor or department for information.

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: Wachtler, Jerri Rae
Description: &lt;p&gt;Alcohol and College Life provides college students with factual information about how alcohol and other drugs affect college life. The course highlights stories and information pertinent to all students, regardless of whether or not they choose to drink. It supports students who do not drink, reinforces safety skills among students who do drink, and counters dangerous myths and behaviors. It emphasizes personal prevention strategies and responsible decision-making. It presents students with tips about how to navigate college life and be successful, including time management, getting involved on campus, meeting new people, etc. Students are encouraged to think about how the course topics apply to their own lives. Students will be able to:&lt;/p&gt; &lt;ul&gt; &lt;li&gt;Discuss basic scientific, medical, and socio-cultural aspects of alcohol as it relates to undergraduate college students. &lt;/li&gt; &lt;li&gt;Describe personal prevention skills regarding alcohol, which maximize safety, academic achievement, and self-growth. &lt;/li&gt; &lt;li&gt;Discuss expectations regarding alcohol from a personal viewpoint as well as the viewpoints of other students, parents, and the University. &lt;/ul&gt; &lt;p&gt;Check out the attached video and visit our website (URL below) to learn more!&lt;/p&gt; &lt;p&gt;Alcohol and College Life is intended for first-year college students. Sophomores and PSEO students may also enroll. Registration is allowed through the first two weeks of the semester. Permission numbers are available from Steve Thompson (thomp030@umn.edu) for those who need them. &lt;/p&gt; &lt;p&gt;It generally takes a day or two for students who register after the first day of classes to show up on the class list and get access to the WebVista course site. So, students who register after the first day of classes should start by reading the course syllabus. The first quiz covers the syllabus. &lt;/p&gt; &lt;p&gt;Students must have access to a computer and the Internet and should have basic computing skills. To self-assess your readiness for e-learning and learn tips for successful e-learning, go to: &lt;a href=&quot;http://digitalcampus.umn.edu/resources/onlinelearningassessment.html&quot; target=&quot;_blank&quot;&gt;http://digitalcampus.umn.edu/resources/onlinelearningassessment.html&lt;/a&gt; Alcohol and College Life is entirely web-based, but it is not

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
PUBH 3001 Personal and Community Health
2 credit(s);
Instructor: Farley, Dana Mark
Description: Introduction to scientific, socio-cultural, and attitudinal aspects of communicable and degenerative diseases, environmental and occupational health hazards, alcohol and drug problems; emphasis on role of education in health conservation, disease control, and drug use. The full syllabus for the course, including lecture outlines, textbook and exam information, can be found at the course URL listed below.
Style: 100% Lecture.
Grading: 40% final exam, 10% reports/papers, 25% other evaluation. on each of two mid-term exams
Exam Format: Multiple choice, fill-in-the-blank, short answer

PUBH 3003 Fundamentals of Alcohol and Drug Abuse
2 credit(s); Credit will not be granted if credit has been received for: PUBH 3004;
Instructor: Farley, Dana Mark
Description: Lecture and special readings on the scientific, sociocultural and attitudinal aspects of alcohol and other drug problems, with special emphasis on incidence, prevalence, high risk populations, prevention, and interventions. The full syllabus for the course, including lecture outlines, textbook and exam information, can be found at -a
STYLE: 100% Lecture.
Grading: 40% final exam, 10% reports/papers, 50% other evaluation. two midterm exams (25% each)
Exam Format: multiple choice

PUBH 3004 Basic Concepts in Personal and Community Health
4 credit(s); prereq credit will not be granted if credit has been received for: PUBH 3003;
Instructor: Farley, Dana Mark
Description: Introduction to scientific, socio-cultural, and attitudinal aspects of communicable and degenerative diseases. This course includes environmental and occupational health hazards and alcohol and drug problems, with an emphasis on the roles of education and prevention.
Style: 100% Lecture.
Grading: 40% final exam, 10% reports/papers, 50% other evaluation. four midterm exams (12.5% each)
Exam Format: Multiple choice, short answer

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: Wachter, Jerri Rae
Description: -aFundamentals of Alcohol & Drug Abuse for Teacher Education is entirely online but is not an independent study course.

PUBH 3040 Dying and Death in the Contemporary Society: Implications for Interdisciplinary Instruction
2 credit(s); prereq Jr or sr or instr consent; Credit will not be granted if credit has been received for: PUBH 6040;
Instructor: Gardner, Jolynn
Description: This course provides basic background information on concepts, attitudes, ethics, and lifestyle management related to dying, death, grief, and bereavement. The emphasis is on preparing community health, helping professionals, and teachers for educational activities in this area. T After taking this course you should: --know basic themes and constructs of dying and death including grief, mourning, suicide, death education, and the dying process; --understand contemporary issues in dying and death in the United States; --be more comfortable confronting dying and death issues, both personally and professionally; and --be aware of different attitudes and develop your personal skills in the field of dying and death.
Style: 100% Web Based.
Grading: 20% mid exam, 25% final exam. --1 self-introduction (3%) --1 short essay assignment (7%) --3 longer essay assignments (45%)
Exam Format: Supervised, in-person (not online) exams

PUBH 3050 Practicum in Peer Education I
A-F only, 2 credit(s); prereq [Upper div student, [demonstrated hth sci or hth ed interests], [3001 or Concurrent registration is required (or allowed) in 3001 or 3004 or Concurrent registration is required (or allowed) in 3004]], instr consent
Instructor: Dorman, Dave

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Student may contact the instructor or department for information.

PUBH 3052 Practicum in Peer Education II
A-F only, 2 credit(s); prereq [Upper div student, [demonstrated hth sci or hth ed interests], [3001 or Concurrent registration is required (or allowed) in 3001 or 3004 or Concurrent registration is required (or allowed) in 3004]], instr consent ; Instructor: Ehlinger MD, Edward Peter
Description: Student may contact the instructor or department for information.

PUBH 3093 Directed Study: Public Health
1-4 credit(s), max credits 4, 4 completions allowed; prereq instr consent ; Instructor: Wachter, Jerri Rae
Description: Student may contact the instructor or department for information.

PUBH 3093 Directed Study: Public Health
1-4 credit(s), max credits 4, 4 completions 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 completions allowed; prereq instr consent ; Instructor: Gardner, Jolynn
Description: Student may contact the instructor or department for information.

PUBH 3100 Making Sense of Health Studies
A-F only, 2 credit(s); prereq High school algebra; Instructor: Maldonado, George
Description: Student may contact the instructor or department for information.

PUBH 3390 Topics: Epidemiology: People, Places and Diseases: Intro to Epidemiology
2 credit(s), max credits 20, 5 completions allowed; prereq Jr or sr or instr consent ; Instructor: Nguyen, Ruby H.N.
Description: Student may contact the instructor or department for information.

PUBH 3639 Prevention: Theory, Practice, and Application in Public Health Services
3 credit(s); prereq Jr or sr; Instructor: Shandling, PhD Stanton Barry
Description: Student may contact the instructor or department for information.

PUBH 3801 Health Economics and Policy
3 credit(s); prereq Course on microeconomics, course on basic statistics; Credit will not be granted if credit has been received for: APEC 3801; Instructor: Karaca Mandic, Pinar
Description: Student may contact the instructor or department for information.

PUBH 6003 Fundamentals of Alcohol and Drug Abuse for Teacher Education
1 credit(s); prereq Master of education student or instr consent ; Credit will not be granted if credit has been received for: PUBH 3003; Instructor: Wachter, Jerri Rae
Description: <p>Prerequisites: Fundamentals of Alcohol & Drug Abuse for Teacher Education is entirely online but is not an independent study course. <p>The course consists of 19 lessons and their respective interactive and audio units on the scientific, socio-cultural, and attitudinal aspects of alcohol and other drug abuse problems. Special emphasis is placed on the incidence and prevalence of drug and alcohol abuse, as well as on high-risk populations, prevention issues, and interventions.</p>
<p>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.</p>
<p>Prerequisites: M.Ed. student or Addiction Studies student. All other students should consult with Steve Thompson (thomp003@umn.edu) for a permission number.</p>
<p>Credit will not be granted if credit has been received for: PUBH 3002, 3003, 3004, 3005, 3032, 3033, 5003, or 5023.</p>
<p>The course is entirely online, including the reading assignments. Students must have access to a computer and the Internet and should have basic computing skills. To self-assess your readiness for e-learning and learn tips for successful e-learning, go to: &lt;a href=&apos;/digitalcampus.umn.edu/resources/onlinelearningassessment.html'&gt;http://digitalcampus.umn.edu/resources/onlinelearningassessment.html'&gt;&lt;/a&gt;.&lt;/p&gt;&lt;p&gt;It generally takes a day or two for students who register after the first day of classes to show up on the class list and get access to the WebVista course site. So, students who register after the first day of classes should start by reading the course syllabus (which is attached to this course guide).</p>&lt;/p&gt;&lt;p&gt;All class communications will be sent to students' official U of M email accounts only. Students should check their U of M email accounts frequently throughout the semester. Students should direct questions or concerns to pubh3005@umn.edu.&lt;/p&gt;&lt;p&gt;Note: PUBH 6003 is taught with PUBH 3005.&lt;/p&gt;

Style: 100% Web Based. Students access all lessons and readings via the WebVista course site. Going through the lessons and completing the readings, assignments and quizzes will require a minimum of three hours per week over a 15-week semester.

Grading: 25% special projects, 60% quizzes, 15% written homework. This is not an independent study course. There are due dates for assignments and quizzes. Late work will be penalized.

PUBH 6020 Fundamentals of Social and Behavioral Science
A-F only, 3 credit(s); max credits 6; prereq Public health [MPH or MHA or certificate] student or health journalism MA major or instr consent ; Instructor: Jones-Webb, Rhonda Jean
Description: Student may contact the instructor or department for information.

PUBH 6024 Program Evaluation for Public Health Practice
3 credit(s); prereq [[Community Health Education or Maternal/Child Health or Public Health Nutrition]] MPH major or instr consent ; Instructor: Harwood PhD, Eileen M.
Description: This course will survey several dimensions of practical health program evaluation with emphases on meeting the needs of community program administrators and planners. We will cover such things as: the purpose and uses of evaluation; differences between program evaluation and evaluation research; standards for good program evaluations (i.e., utility, feasibility, propriety, and accuracy); how logic models are used to describe program goals and objectives; the influence of a program's developmental stage on determining an appropriate evaluation plan; characteristics of good evaluation questions; standards for measuring program effectiveness; evaluation designs and approaches; the importance of engaging stakeholders in the evaluation process; the importance of high quality, reliable and valid evaluation data that are appropriate to the selected design and analysis methods; the context or environment in which a program operates (i.e., confounding variables such as politics, history, social norms, and competition); how to interpret and disseminate evaluation findings that will be used; and the role of evaluators in society. The course's structural emphasis is highly participatory as instruction is designed to stimulate critical thinking; therefore, lectures are minimized and student interactions are maximized with practical examples and application of the reading materials.

Style: 10% Lecture, 40% Discussion, 30% Small Group
Activities, 10% Demonstration, 5% Guest Speakers, 5% Web Based. The course textbook readings are critical to class time discussions and activities; some class time may be used to re-read, discuss, and evaluate that material.

Grading: 75% special projects, 25% other evaluation. 25% of the final grade is based on team performance throughout the semester; peer evaluation.

**Exam Format:** No exams are given for this course.

**PUBH 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:** Gardner, Jo Lynn

**Description:** This course provides basic background information on concepts, attitudes, ethics, and lifestyle management related to dying, death, grief, and bereavement. The emphasis is on preparing community health, helping professionals, and teachers for educational activities in this area. The class will include in-depth discussion of the final exam. After taking this course you should: --know basic themes and constructs of dying and death including grief, mourning, suicide, death education, and the dying process; --understand contemporary issues in dying and death in the United States; --be more comfortable confronting dying and death issues, both personally and professionally; and --be aware of different attitudes and develop your personal skills in the field of dying and death.

**Style:** 100% Web Based.

**Grading:** 20% mid exam, 25% final exam.--1 self-introduction (3%) --1 short essay assignment (7%) --3 longer essay assignments (45%)

**Exam Format:** Supervised, in-person (not online) exams.

**PUBH 6045 Skills for Policy Development**

1 credit(s); prereq Grad student in public health, previous policy related coursework;

**Instructor:** Toomey, Traci Louise

**Description:** Students will identify a public health-related policy issue at the local, state, or federal level that they will focus on throughout the course. This course focuses on developing skills that are relevant to policy development and implementation. Class meetings will include a combination of lectures, guest speakers, and skill-development sessions. Students will be expected to actively participate. The goals of this course are: (1) To introduce students to strategies used to influence and shape public policy development; (2) To develop skills and self-efficacy to implement these strategies; (3) To apply these skills to one policy issue related to public health. As a result of this course, students will understand how to: (1) Use strategies to effectively use media to influence policy change; (2) Give an effective media interview; (3) Structure and give effective testimony; (4) Develop fact sheets and other written materials for legislators and media; (5) Communicate with elected officials; (6) Understand different strategies for influencing policy changes.

**Course Prerequisites** The course is intended for graduate students who have an interest in public health policy and have previous policy-relevant coursework. This course serves as the capstone course for the SPH policy concentration.

**Style:** 20% Lecture, 10% Film/Video, 30% Small Group Activities, 40% Guest Speakers.

**Grading:** 70% written homework, 30% class participation.

**PUBH 6049 Legislative Advocacy Skills for Public Health**

A-F only, 3 credit(s); prereq 6078, instr consent ;

**Instructor:** Forster, Jean

**Description:** Students will enroll in this course spring semester for 3 credits. Each student will be assigned to work with a lobbyist for a non-profit agency, a legislative staff person, or a legislative liaison from a public health organization. With the help of that person, the student will identify one or two issues which will be addressed in the 2007 legislative session, and follow that issue from beginning to end at the legislature. The lobbyists have agreed to permit the student to accompany him or her at functions and meetings related to the issue, so that the student will learn firsthand the political skills necessary to see an issue through the session. In addition, students will be required to participate in the necessary background work (developing materials, calling constituents, researching the issue, helping to organize testimony). The primary goal of this course is to match students with organizations that: (1) take positions on issues that are 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 legislative process.

**Style:** There will be 10 class periods. Two class periods will be scheduled after the course begins. One of these will be for a tour of the Capitol and the other will be the final two-hour class to review what happened during the legislative session.

**Grading:** 35% reports/papers, 30% written homework, 35% class participation.

**PUBH 6051 Community Health Theory and Practice II**

A-F only, 3 credit(s); prereq 6050, 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 work 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 Hllth sci professional school student or hllth sci or soc work or pub affairs grad student or instr consent ;

**Instructor:** Jones-Webb,Rhonda Jean

**Description:** This course examines strategies to reduce race, ethnic, and social-class-based health disparities. The course focuses specifically on policy, community, institutional, and individual level strategies to reduce health inequities in the U.S. The course is designed for public health students. Students in other health professions (e.g., medicine, nursing) or human service professions (e.g. public affairs, social work) are also welcome. Consideration will be given to undergraduates on a case by case basis.

**PUBH 6074 Mass Communication and Public Health**

3 credit(s); prereq [One course in [behavioral or social science], [public health or journalism] grad student] or instr consent ;

**Instructor:** Yzer,Marco

**Description:** This course is designed to provide an overview of theory and research regarding the intersection of information available via mass media outlets and various aspects of public health. In this course we examine the potential impact of media content on public health outcomes both as a product of individual(s)’ everyday interaction with media and as a result of strategic use of media-based efforts to accomplish public health goals. Discussion will emphasize both planned and unplanned effects of mass media in a variety of health-related situations. For SPH and Health Sciences students, this course is intended to complement courses in social and behavioral approaches to community health. This includes the intervention core in Community Health Education and the social and behavioral science perspectives in MPH programs in general. This course is primarily a critical review of theory, research, and applications of mass media in public health but applies to planning principles for developing media-based public health interventions. For students in Journalism and Mass Communication, the course is intended to complement social and behavioral science approaches to public opinion and media effects as well as to provide another perspective on the study of mass media as social institutions. For students in Health Communication, the course also is intended as a basis for courses on health message design and public health campaign evaluation. The learning objectives of this 3-credit course are to advance the student’s familiarity, comprehension, and application of a broad range of mass communication-related facts, concepts, and theories as they apply to public health: 1. The student will recognize the transdisciplinary nature of mass communication and public health, and will identify the critical relationships between theoretical ideas from different disciplines, i.e., communication, public health and psychology 2. The student will identify the complex interdependence of critical factors in mass communication of public health, i.e., factors related to audience, environment (e.g., competing and reinforcing media efforts), message, and the health issue at hand. 3. The student will be able to analyze the effects of various media content on the public’s beliefs about health issues. 4. The student will be able to write about health communication issues in a compelling manner. This means that the student’s writing carefully builds an argument that integrates theoretical notions about communication and health, and applies them to real life issues.

**Prerequisites:** 
PUBH 6050 and CHE major or instructor’s permission.

**Style:** 50% Lecture, 10% Small Group Activities, 30% Student Presentation, 10% Guest Speakers.

**Grading:** 50% reports/papers, 10% attendance, 25% in-class presentation, 15% class participation.
PUBH 6150 Interdisciplinary Evaluation of Occupational Health and Safety Field Problems
3 credit(s); prereq Environmental health major or instr consent;
Instructor: Nachreiner, Nancy Martha
Description: Guided evaluation of potential health and safety problems at work sites, includes preparation of recommendations and design criteria for correction/evaluation of occupational health/safety programs. Prerequisite: Introduction to Occupational Health and Safety (PubH 6170).

PUBH 6160 Metabolomics
3 credit(s); prereq [Coursework in biochemistry, molecular biology, organic chemistry] or instr consent;
Instructor: Peterson, Lisa Ann
Description: Student may contact the instructor or department for information.

PUBH 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 or [industrial hygiene specialty or equiv]] or instr consent;
Instructor: Raynor, Peter Cameron
Description: Student may contact the instructor or department for information.

PUBH 6181 Surveillance of Foodborne Diseases and Food Safety Hazards
2 credit(s); prereq 6320 or 6330 or 6341 or instr consent;
Credit will not be granted if credit has been received for: VMED 5165;
Instructor: Hedberg, Craig W
Description: Student may contact the instructor or department for information.

PUBH 6182 Emerging Infectious Disease: Current Issues, Policies, and Controversies
A-F only, 3 credit(s); prereq AHC student, instr consent;
Instructor: Osterholm, Michael T
Description: Student may contact the instructor or department for information.

PUBH 6191 Air Pollution
A-F only, 3 credit(s); prereq [General, organic chemistry] or instr consent;
Instructor: Simcik, Matt
Description: Student may contact the instructor or department for information.

PUBH 6201 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, MD, William H
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: Councilman, Robin M
Description: This course focuses on how to access demographic, health, and background information on immigrant populations; characteristics and health needs of immigrants; designing culturally competent health programs; and advocating for change to promote immigrant health. Community visits required. Highly structured online course with weekly reading, community work, research, video, and on-line posting assignments. Also 1 research project for 3 credit students, 2 for 4 credit students. 2 big community work assignments.
Style: 10% Film/Video, 90% Web Based. On-line discussion and small group on-line chats are required
Grading: 40% reports/papers, 15% quizzes, 15% class participation, 30% other evaluation. Please see the syllabus as the grading is very different between 3 and 4 credit students.
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 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 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 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: Munoz-Zanzi, Claudia Andrea
Description: Grading: 20% mid exam, 20% final exam, 5% reports/papers, 25% special projects, 20% written homework, 10% class participation.

PUBH 6370 Social Epidemiology
2 credit(s);
Instructor: Oakes, J Michael
Description: Student may contact the instructor or department for information.

PUBH 6385 Epidemiology and Control of Infectious Diseases
2 credit(s); prereq [6320 or 6341], PubH student;
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, Ph.D., Kristin Ellen
Description: The course introduces students to epidemiologic aspects of cancer through a spectrum of cancer research topics. Epidemiologic concepts are emphasized throughout with attention to limitations and advantages of different study designs and methods. We consider cancer both in and outside of the United States and a few noted historical achievements are covered. We touch on bench science (where disease paradigms, methods for exposure, disease detection and treatment often originate), surveillance, etiologic studies in populations, early detection, treatment, survivorship, palliation and end-of-life care and policy. Because cancer is a complex entity, with over 150 diseases, we have the opportunity to talk about many different organ systems; we do not cover them all. Some topics include the multistage model of cancer, differences between benign and metastatic tumors and different cancer etiologies: viral, genetic, hormonal and chemical. We discuss the issue of questionnaire versus biomarker data and the importance of quality control measures. We cover cancer surveillance and discuss influences on quality of the data as well as ethical concerns. A lecture on cancer screening and control includes discussion on screening guidelines? including areas of controversy such as PSA-screening for prostate cancer and use of ?breast self exam? for breast cancer; We discuss study designs that can be used to evaluate screening and their limitations. We include material on palliative and end-of-life care for cancer patients.
Grading: 30% final exam, 5% special projects, 30% quizzes, 5% written homework, 25% in-class presentation, 5% class participation. The in-class presentation is a fact sheet on a topic of the student’s choice that is presented to a small group.
Exam Format: Both quizzes and the final exam are take home

PUBH 6414 Biostatistical Methods I
A-F only, 3 credit(s); prereq Public Health [MPH or certificate] student or [environmental health [MS or PhD] or health journalism MA or health informatics [MS or PhD]] major or instr consent ; Credit will not be granted if credit has been received for: PUBH 6450;
Instructor: Davey MS, Cynthia S
Description: Student may contact the instructor or department for information.

PUBH 6414 Biostatistical Methods 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: Brealey, Ann M.
Description: Student may contact the instructor or department for information.

PUBH 6415 Biostatistical Methods II
3 credit(s); prereq [6414, [public health [MPH or certificate] student or environmental health [MS or Ph.D] or health journalism MA or health informatics [MS or Ph.D] major] or instr consent ;
Instructor: Telke,Susan Elizabeth
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 Ph.D] or health journalism MA or health informatics [MS or Ph.D] major] or instr consent ;
Instructor: Telke,Susan Elizabeth
Description: Student may contact the instructor or department for information.

PUBH 6450 Biostatistics I
A-F only, 4 credit(s); prereq [College-level algebra, health sciences grad student] or instr consent ; Credit will not be granted if credit has been received for: PUBH 6414;
Instructor: Banerjee,Sudipto
Description: Student may contact the instructor or department for information.

PUBH 6451 Biostatistics II
4 credit(s); prereq [[6420, 6450] or [6414, 6415]] with grade of at least B, health sciences grad student] or instr consent ;
Instructor: Thomas,William
Description: Student may contact the instructor or department for information.

PUBH 6544 Principles of Problem Solving in Health Services Organizations
A-F only, 3 credit(s); prereq 6541, completed 30 hours of MHA coursework, health care administration student;
Instructor: Potthoff,Sandra Jean
Description: Student may contact the instructor or department for information.

PUBH 6547 Health Care Human Resources Management
A-F only, 2 credit(s); prereq Health care admin student or public health admin student or instr consent ;
Instructor: Langan,Patrick J
Description: Student may contact the instructor or department for information.

PUBH 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 Healthcare Strategy and Marketing
A-F only, 2 credit(s); prereq Health care admin student or public health admin student or instr consent ;
Instructor: Hillestad,Steven G
Description: Student may contact the instructor or department for information.

PUBH 6557 Health Finance I
3 credit(s); prereq [[Health care admin or public health admin/policy major], familiarity with computerized spreadsheets] or instr consent ;
Instructor: Haim,Barry
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: Sainfort,François
Description: Student may contact the instructor or department for information.

PUBH 6565 Health Care Delivery Design and Innovation
A-F only, 2 credit(s), max credits 4; prereq Public health MPH or MHA certificate student or instr consent ;
Instructor: Zismer,Daniel Kevin
Description: Student may contact the instructor or department for information.

PUBH 6571 Leading Performance Improvement in Health Care
A-F only, 2 credit(s); prereq MHA or MPH or certificate student or instr consent ;
Instructor: Mosser MD,Gordon
Description: Student may contact the instructor or department for information.

PUBH 6573 The Nature of Clinical Care
A-F only, 2 credit(s); prereq School of Public Health student;
Instructor: Mosser MD,Gordon
Description: PUBH 6573 The Nature of Clinical Care is an elective course intended to provide an understanding of clinical care for future health care professionals who are not clinicians. The primary aim of the course is to enable administrators in health care delivery or public health to feel comfortable in discussing clinical matters with their clinical colleagues and to participate as peers in managing health care performance in hospitals, medical groups, and other health care delivery and public health institutions. The course is also suitable for future health services researchers who do not have clinical backgrounds. The course covers medical terminology, basic human anatomy, common human diseases, the scope of practice for medical and surgical specialties, and common medical and surgical procedures. Readings include a medical terminology textbook and a textbook on human diseases. The early portion of the course is taught as lectures, using written tests on factual material to evaluate learning . The later portion is taught with clinical professionals as guest presenters and discussion leaders. Students do small group projects to study clinical teams and the work that they do.

PUBH 6574 Managing Medical Practices as Components of Integrated Health Systems
A-F only, 2 credit(s), max credits 4; prereq MHA student or instr consent ;
Instructor: Zismer,Daniel Kevin
Description: Student may contact the instructor or department for information.

PUBH 6577 Advanced Problem Solving in Health Services Administration
A-F only, 2 credit(s); prereq MHA student;
Instructor: Potthoff,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, 2 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 6627 Sexuality Education: Criteria, Curricula, and Controversy
1 credit(s); prereq Prefer public health student or grad student or professional in public health or education;
Instructor: Brett, Lynn Muenzenberger
Description: Student may contact the instructor or department for information.

PUBH 6634 Advocacy and Children’s Rights
2 credit(s); prereq Public health student or grad student or instr consent;
Instructor: Oberg MD, Charles N
Description: Student may contact the instructor or department for information.

PUBH 6673 Grant Writing for Public Health
1 credit(s); prereq MCH or CHE or PubH Nutr or EPI MPH or instr consent;
Instructor: Hennrikus, Deborah Jane
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 JD, Anne M
Description: Student may contact the instructor or department for information.

PUBH 6724 The Health Care System and Public Health
3 credit(s); prereq Public health or grad student or instr consent;
Instructor: Ward, Andrew Clay
Description: Student may contact the instructor or department for information.

PUBH 6727 Health Leadership and Effecting Change
2 credit(s); prereq Public health MPH or MHA or certificate student or [health services research, policy/admin] MS student or instr consent;
Instructor: Mosser MD, Gordon
Description: PUBH 6727, Health Leadership and Effecting Change, is designed primarily for students who aim to be leaders in healthcare organizations, especially delivery organizations such as hospitals, medical groups, long-term care facilities, and integrated delivery systems. Students learn core concepts of leadership, including principles of organizational change. They use a self-assessment instrument to understand their own current strengths and shortcomings as a leader and to plan for their professional development. The readings are books and articles from the general leadership literature, which are applied in discussion of health care settings. Small teams of students carry out projects to learn how change has been accomplished in real world health care settings. Their findings are reported orally to the class and in writing.

PUBH 6730 International Comparative Health Systems
2 credit(s); prereq 6724 or 6556 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: Turner, Leigh
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: Turner, Leigh
Description: Student may contact the instructor or department for information.

PUBH 6751 Principles of Management in Health Services Organizations
A-F only, 2 credit(s); prereq [Public health MPH or MHA or certificate] student or [environmental health MS or PhD] student or dentistry MS student or instr consent;
Instructor: Begun, James Warren
Description: Equips students with analytical skills to understand organizations and organization behavior. Develops management and leadership competencies that enable students to make a positive difference in their work organizations and in the health of populations.
Style: 50% Lecture, 5% Film/Video, 25% Discussion, 20% Small Group Activities.
Grading: 30% mid exam, 40% reports/papers, 30% written homework.

PUBH 6758 Managing Public Health Systems
A-F only, 2 credit(s); prereq [6751 or Concurrent registration is required (or allowed) in 6751], [public health [MPH or certificate] student or environmental health [MS or PhD] major or HSRPA [MS or PhD] major];
Instructor: Wholey, Douglas R
Description: Student may contact the instructor or department for information.

PUBH 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 6780 Topics: Public Health Administration and Policy
5.0-4.0 credit(s), max credits 80, 20 completions allowed;
Instructor: Call PhD, Kathleen Thiede
Description: Student may contact the instructor or department for information.

PUBH 6800 Topics: Health Services Research and Policy
2 credit(s), max credits 80, 20 completions allowed;
Instructor: Allison, Kirk Charles
Description: This course explores the intersection of global health, relief, development and the roles and interaction of intergovernmental & governmental agencies and religious & non-religious NGOs in humanitarian response, development and social welfare generation supporting global health. Topics include the state of global health; emergence of humanitarianism; relationship of humanitarianism to human
rights; the structure of intergovernmental; governmental and private voluntary organization sectors; specific NGOs and motivating traditions; international vs. home-grown; and religious and nonreligious NGOs; work in humanitarian relief, development and social welfare generation including in the context of HIV/AIDS, tuberculosis and malaria. Issues arising at the intersection of these dimensions will be critically examined. UN bodies and a variety of NGOs with diverse philosophical groundings will be explored with a view of understanding their conceptual frameworks and models of operation. Intersections of culture, confessional or other content, and interagency relationships will also be discussed. Guest speakers from disciplines and NGOs will illuminate specific contexts. Course is open University-wide to all Academic Health Center, graduate, and professional students. (Advanced undergraduates and interested others contact instructor.) Required Text: Michael Barnett and Thomas G. Weiss (eds.) Humanitarianism in Question: Politics, Power, Ethics. Ithaca & London: Cornell University Press, 2008. List price $19.95 Coffman bookstore will have several copies as well under course and general books. This can be obtained for between $14 & $20 via amazon.com (book link) or Barnes & Noble online (book link). The first readings are in .pdf via Electronic Reserve to allow time for book to arrive.

**Style:** 50% Lecture, 5% Film/Video, 30% Discussion, 15% Small Group Activities. several guest speakers

**Grading:** Class participation = 20% (includes limited online discussion); 3 Reaction papers = 30% (3-4 pages); Final exam = 20%; Final paper =30% (10-15 pages)

**Exam Format:** Final exam - mostly contextual (reflect on...); some identification

**PUBH 6803 Conducting a Systematic Literature Review**

**OPT No Aud, 3 credit(s); prereq Basic knowledge of epidemiology**

**Instructor:** Kane, Robert L

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

**PUBH 6809 Advanced Methods in Health Decision Science**

**OPT No Aud, 3 credit(s); prereq [6717 or intro course in decision analysis], some facility with mathematical notation/reasoning**

**Instructor:** Kuntz, Karen M

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

**PUBH 6811 Health Disparities Research: Measures, Methods, and Data**

**OPT No Aud, 2 credit(s); prereq [[Grad or professional] student, introductory research methods course] or instr consent ;**

**Instructor:** Call, PhD, Kathleen Thiede

**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:** Leach, Terry Jean

**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:** Karaca Mandic, Pinar

**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 7096 Field Experience: Community Health Education
S-N only, 1-6 credit(s); max credits 6; 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: 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 7394 Master's Project: Epidemiology
S-N only, 1-6 credit(s), max credits 6; prereq Epidemiology MPH student, instr consent;
Instructor: Nguyen, Ruby H.N.
Description: Student may contact the instructor or department for information.

PUBH 7396 Field Experience: Epidemiology
S-N only, 1-5 credit(s), max credits 5; prereq Epidemiology major, inst consent;
Instructor: Nguyen, Ruby H.N.
Description: Student may contact the instructor or department for information.

PUBH 7402 Biostatistics Modeling and Methods
4 credit(s); prereq 7401; intended for PhD students in health sciences;
Instructor: Wall, Melanie M
Description: Student may contact the instructor or department for information.

PUBH 7406 Biostatistics: ANOVA and Design
4 credit(s); prereq 7405, [Stat 5102 or Concurrent registration is required (or allowed) in Stat 5102], biostatistics major or instr consent;
Instructor: Bergemann, Tracy L
Description: Student may contact the instructor or department for information.

PUBH 7407 Analysis of Categorical Data
3 credit(s); prereq 7405, [Stat 5102 or Concurrent registration is required (or allowed) in Stat 5102 or Stat 8102] or Concurrent registration is required (or allowed) in Stat 8102;
Instructor: Hanson, Timothy Edward
Description: Student may contact the instructor or department for information.

PUBH 7420 Clinical Trials: Design, Implementation, and Analysis
3 credit(s); prereq 6451 or Concurrent registration is required (or allowed) in 6451 or 7406 or instr consent;
Instructor: Neaton, Jim
Description: Student may contact the instructor or department for information.

PUBH 7440 Introduction to Bayesian Analysis
3 credit(s); prereq [[7405, 7406] or [Stat 5101, 5102] or equiv], [public health MPH or biostatistics or statistics] grad student or instr consent;
Instructor: Carlin PhD, Bradley Paige
Description: Student may contact the instructor or department for information.

PUBH 7470 Statistics for Translational and Clinical Research
3 credit(s); prereq [6450, 6451] or equiv], [grad student in biostatistics or statistics or clinical research], familiarity with SAS;
Instructor: Le, Chap T.
Description: Student may contact the instructor or department for information.

PUBH 7581 Gerontology and Services for Long Term Care Residents
A-F only, 2-4 credit(s), max credits 4, 1 completion 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 7586 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 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 8120 Occupational Health and Safety Research Seminar
S-N only, 1 credit(s), max credits 12, 12 completions allowed; prereq [6120, [6330 or 6341], 6450, environmental health major, [OIPRTP specialty or equiv]] or instr consent;
Instructor: Gerberich PhD, Susan G
Description: Student may contact the instructor or department for information.

PUBH 8141 Doctoral Seminar in Observational Inference
S-N only, 2 credit(s), max credits 20, 10 completions 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 8165 Current Topics in Toxicology
S-N only, 1 credit(s), max credits 2; prereq [Environmental health PhD, toxicology concentration] student or instr consent;
Instructor: Toscano Jr, William A
Description: Student may contact the instructor or department for information.

PUBH 8166 Experiences in Toxicology Research
A-F only, 3 credit(s); prereq Environmental health PhD
student in toxicology concentration;
Instructor: Peterson,Lisa Ann
Description: Student may contact the instructor or department for information.

PUBH 8300 Topics: Epidemiology: Advanced Epi Methods: Applications
1-4 credit(s), max credits 20, 20 completions allowed;
Instructor: Schreiner,Pamela Jean
Description: Student may contact the instructor or department for information.

PUBH 8377 Seminar: Chronic Disease and Behavioral Epidemiology
S-N only, 1 credit(s), max credits 2; prereq Epi grad major or instr consent ;
Instructor: Harlow,Bernard Leslie
Description: This course offers an intimate recapitulation of the weekly seminar of the Division of Epidemiology and Community Health. In the hour immediately following the seminar, the class meets with the seminar presenter and course instructors for an indepth examination of the topic presented. Classroom activities include review and clarification of the seminar material, connection of this material to other areas of epidemiology and public health, and open-ended questions and answers with the students.

PUBH 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: Luo,Xianghua
Description: Student may contact the instructor or department for information.

PUBH 8462 Advanced Survival Analysis
3 credit(s); prereq [7450, 8432, Stat 5102, advanced [biostatistics or statistics] major] or instr consent ;
Instructor: Grambsch,Patricia L
Description: Student may contact the instructor or department for information.

PUBH 8472 Spatial Biostatistics
3 credit(s); prereq [STAT 5101, STAT 5102] or [STAT 8101, STAT 8102], some experience with S-plus; STAT 8311 recommended;
Instructor: Banerjee,Sudipto
Description: Student may contact the instructor or department for information.

PUBH 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 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 8830 Writing for Research
OPT No Aud, 2 credit(s); prereq HSRPA PhD student or instr consent;
Instructor: Kane,Robert L
Description: Student may contact the instructor or department for information.

Recreation Resource Management
115 Green Hall

RRM 5201 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, 15% Small Group Activities, 10% Guest Speakers, guest, inclass activities, videos
Grading: 32% mid exam, 28% final exam, 16% reports/papers, 20% special projects, 4% class participation. 2 exams plus final, individual case study, group paper with presentation
Exam Format: exams use a combination of formats including essay, short answer and true/false

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: Davenport,Mae Allen
Description: Students select/conduct a study of or project on a topic of personal interest in consultation with faculty member. Documented by initial proposal and reports of accomplishment.

RRM 4293 Directed Study
1-5 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Schneider,Ingrid Eleanore
Description: Students select/conduct a study of or project on a topic of personal interest in consultation with faculty member. Documented by initial proposal and reports of accomplishment.

RRM 4293 Directed Study
1-5 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Messer,Cynthia Cosdon
Description: Students select/conduct a study of or project on a topic of personal interest in consultation with faculty member. Documented by initial proposal and reports of accomplishment.

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, 15% Small Group Activities, 10% Guest Speakers, guest, inclass activities, videos
Grading: 32% mid exam, 28% final exam, 16% reports/papers, 20% special projects, 4% class participation. 2 exams plus final, individual case study, group paper with presentation
Exam Format: exams use a combination of formats including essay, short answer and true/false

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
REC 1501 Orientation to Leisure and Recreation
3 credit(s);
Instructor: Magnuson,Connie
Description: This introduction to the field of Recreation and Leisure Services will examine the history and development of the recreation movement, and explore the role that recreation plays in our lives and the impact on our quality of lives as individuals and as a society. As this is a very diverse field with a vast number of career opportunities, we will take a hands-on, experiential approach which will include exposure to several different types of programs through field trips, service learning and guest speakers.

REC 3551 Administration and Finance of Leisure Services
A-F only, 4 credit(s); prereq [3541W or instr consent ]; rec major;
Instructor: Brown,Tony Kevin
Description: Concepts, principles, and practices of financing and managing leisure service organizations. Course content will include organizational behavior and leadership, personnel management, project management, operations and maintenance management, financial management, and risk management.

REC 3601W Leisure and Human Development
3 credit(s); Meets CLE req of Writing Intensive;
Instructor: Magnuson,Connie
Description: Course Description This course provides students with opportunities to explore issues associated with the many 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 is entirely on-line.

REC 3796 Senior Internship in Recreation, Park, and Leisure Studies
S-N only, 9 credit(s); prereq Rec major, completion of most core courses, 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
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Rec major, instr consent ;
Instructor: Magnuson,Connie
Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Rec major, instr consent ;
Instructor: Allison JD,Rayla
Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 3993 Directed Study in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions 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
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
prereq Rec major, instr consent ;
Instructor: Kih,Lisa A
Description: Scholarly projects (e.g., library or field research) or demonstration projects.

REC 5111 Sports Facilities
A-F only, 3 credit(s); prereq Kin or Rec major or instr consent ;
Instructor: Turman PhD,James C
Description: An overview of sports facilities including the planning, development, design, funding, financing, and construction of such facilities with emphasis on major indoor multipurpose facilities for recreational sports, physical education, and intercollegiate athletics on the college campus and an introduction to public/private arenas and stadiums. The class will tour selected on-campus kinesiology, athletic, and recreational facilities. Students will be assigned a group sports facilities project and present their concepts and plans to the class. Other topical areas may include, operations management, marketing, advertising, public relations, and risk management.
Style: 35% Lecture, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 15% Field Trips, 5% Guest Speakers.
Grading: 17% final exam, 35% reports/papers, 25% special projects, 5% quizzes, 13% written homework, 5% attendance. Note: attendance also includes in-class presentation and participation.
Exam Format: multiple choice, fill-in, matching, and essay

REC 5115 Event Management in Sport
A-F only, 3 credit(s); prereq credit will not be granted if credit received for: Kin 5115; 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.

REC 5191 Commercial Recreation and Tourism  
A-F only, 3 credit(s); prereq 3551 or instr consent;  
Instructor: Hendrix, Mark Alan  
Description: Scope and development of profit-oriented recreation agencies, including an emphasis on the tourism industry.

REC 5371 Sport and Society  
A-F only, 3 credit(s); prereq [3126W, grad student] or instr consent;  
Instructor: Kane, Mary Jo  
Description: Sport, sporting processes, social influences, systems, and structures that have affected and exist within/among societies, nations, and cultures. Issues concerning social differentiation. Social concerns such as violence and honesty.

REC 5461 Foundations of Sport Management  
A-F only, 3 credit(s); prereq Kin or rec or postbac or grad student or instr consent;  
Instructor: Esten, Phil L  
Description: Theories/techniques in administration/management of sport enterprises. Organizational theory/policy, practical examples of sport management skills/strategies.

REC 5621 Programming and Promotion in Sport  
A-F only, 3 credit(s); prereq 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 field 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 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  
1-12 credit(s), max credits 12, 12 completions allowed;  
Instructor: Fitzgerald, Kevin Michael Patrick  
Description: Current issues in the broad field and subfields in kinesiology, or related coursework in areas not normally available through regular offerings.

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: Kihl, Lisa A  
Description: Defines/reviews various types of research in exercise and sport science, physical education, and recreation studies. Qualitative research, field studies, and introspective research strategies as alternatives to traditional scientific paradigm.

REC 5992 Readings: Recreation  
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;  
prereq REC major, instr consent REC major, instr consent;  
Instructor: Allison JD, Rayla  
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

REC 5995 Problems in Recreation, Park, and Leisure Studies  
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed; prereq [REC 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.
A-F only, 1-9 credit(s), max credits 9, 3 completions allowed; prereq [REC 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 A-F only, 1-9 credit(s), max credits 9, 3 completions allowed; prereq [REC MEd or grad student], instr consent; Instructor: Kihl, Lisa A
Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

REC 6796 Practicum in Recreation, Park, and Leisure Studies S-N only, 3-9 credit(s), max credits 9, 3 completions allowed; prereq [Rec MEd or grad student], instr consent; Instructor: Magnunson, Connie
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 9, 3 completions 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 9, 3 completions 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 9, 3 completions 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 9, 3 completions 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 8995 Research Problems in Recreation, Park, and Leisure Studies S-N only, 1-4 credit(s), max credits 9, 3 completions allowed; prereq instr consent REC PhD student, 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 9, 3 completions allowed; prereq instr consent REC PhD student, 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 9, 3 completions allowed; prereq instr consent REC PhD student, instr consent; Instructor: Kihl, Lisa A
Description: Individual scholarly research.

RSC 5295 Advanced Biomechanics II: Kinetics A-F only, 3 credit(s); prereq 5135 or equiv or instr consent; Instructor: Mathiowetz PhD, Virgil G
Description: This course examines the forces which create human motion and which are produced within the body as a result of human motion. Using lectures, laboratory experiments, and group discussion we will develop the skills for measuring the kinetics of human motion. Clinical movement assessment as well as exercise, sport, and activities of daily living will be measured and analyzed to describe the transfer of forces within the body. We will develop two dimensional rigid body dynamics models to describe human kinetics, discuss forward and inverse dynamics solutions, and develop hypotheses to describe whole body and joint kinetics.

RSC 5294 Independent Study in Rehabilitation Science 1-3 credit(s), max credits 3, 3 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq Rehabilitation science student or program approval; Instructor: Mathiowetz PhD, Virgil G
Description: Student may contact the instructor or department for information.
1-3 credit(s), max credits 3, 3 completions allowed; prereq Rehabilitation science student or program approval; Instructor: Ludewig, Paula M
Description: Student may contact the instructor or department for information.

RSC 8294 Independent Study in Rehabilitation Science
1-3 credit(s), max credits 3, 3 completions allowed; prereq Rehabilitation science student or program approval; Instructor: Lowe, Dawn Annette
Description: Student may contact the instructor or department for information.

RSC 8294 Independent Study in Rehabilitation Science
1-3 credit(s), max credits 3, 3 completions allowed; prereq Rehabilitation science student or program approval; Instructor: Kukulka, Carl G
Description: Student may contact the instructor or department for information.

RSC 8100 Rehabilitation Science Seminar
A-F only, 1 credit(s), max credits 6, 6 completions allowed; prereq Rehabilitation science student or program permission; 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 completions allowed; prereq Rehabilitation science student or program permission, instr consent; Instructor: Patterson, Robert Patrick
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 completions allowed; prereq Rehabilitation science student or program permission, instr consent; Instructor: Carey, James Robert
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 completions allowed; prereq Rehabilitation science student or program permission, instr consent; Instructor: Mathiowetz, Virgil 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 completions allowed; prereq Rehabilitation science student or program permission, instr consent; Instructor: Kimberley, PT, PhD, 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 completions allowed; prereq Rehabilitation science student or program permission, instr consent; Instructor: DiFabio, Richard P
Description: Student may contact the instructor or department for information.
RSC 8185 Problems in Rehabilitation Science
1-3 credit(s), max credits 3, 3 completions allowed; prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Nuckley PhD, David J
Description: Student may contact the instructor or department for information.

RSC 8185 Problems in Rehabilitation Science
1-3 credit(s), max credits 3, 3 completions 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 completion 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 8188 Teaching Practicum
A-F only, 1-5 credit(s), max credits 5, 1 completion 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 8188 Teaching Practicum
A-F only, 1-5 credit(s), max credits 5, 1 completion 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 8282 Problems in Human Movement
A-F only, 4 credit(s); prereq [Rehabilitation science student or program permission], instr consent;
Instructor: Kimberley, PT, PhD, Teresa Jacobson
Description: Student may contact the instructor or department for information.
REL 1001 Introduction to the Religions of the World
3 credit(s); prerequisite credit will not be granted if credit already received for: ReIA 1001; Meets CLE req of International Perspective Core;
Instructor: Levinson PhD, Bernard M
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 1082 Jesus in History
3 credit(s); prerequisite credit will not be granted if credit already received for: ReIA 1082, CNES 1082; Credit will not be granted if credit has been received for: CNES 1082; Meets CLE req of Historical Perspective Core;
Instructor: Sellew, Philip
Description: In this course we study Jesus of Nazareth in his original setting (first-century Jewish Palestine) and then his role in American culture. How did the image of Jesus shift in changing cultural circumstances? How do modern scholars approach the historical figure of Jesus? What special issues and problems emerge as we try to apply scholarly methods of inquiry to an ancient person who is still worshipped daily almost 2000 years after his death? We ask how Jesus fit within his own world - Jewish, Greek, and Roman. How unusual was Jesus in his own day? What were his intentions? What attracted people to him? What led to his arrest, trial, and execution? We consider the various stories told in the gospel writings of the early churches about Jesus the healer, Jesus the teacher, Jesus the prophet, Jesus the man (a temporary visit from Heaven). We ask whether or how we might manage to correlate these competing portraits of Jesus. Structure: We have two lectures and one discussion section each week Conversation is always welcome. We engage in close readings of the Gospel of Mark, thought to be the oldest gospel that still survives intact, as well as parts of other biblical and apocryphal texts from ancient Christianity. Each student writes six brief reports (1-2 pp.) on assigned topics or problems; these reports form the basis of discussion in our midweek sections. Brief quizzes each week test reading comprehension.

REL 1201 The Bible: Context and Interpretation
3 credit(s); Credit will not be granted if credit has been received for: RELS 3201; Meets CLE req of Literature Core;
Instructor: Levinson PhD, Bernard M
Description: The course attempts to get behind the overlay imposed by modern culture upon the Old Testament/Hebrew Bible and to read it on its own terms. In order to do so, students will explore the fascinating literature and religion of the ancient Near East. We will read texts from ancient Mesopotamia, Canaan (Ugarit), and Israel, and discuss both the ideas found in them and their literary artistry. After investigating the literature of Israel's neighbors, we will read biblical literature in dialogue with these stories, intellectually analyzing the narratives of the origins of the world, the origin of life, the great flood story, the idea of divine revelation, and the significance of law. Specific topics to be dealt with include: God, creation, fate, the point of human life, and the meaning of history. The course teaches students how to read closely and to think critically about the meaning of a text. Students will be asked to read primary sources for specific questions of content and meaning, frequently with the help of assignment sheets, and to learn a methodology for deciding between right and wrong answers. The skills thereby learned will assist students with any other course in the Liberal Arts. The assumptions of the course are academic and secular, as required by the First Amendment. Consequently, the course does not address personal religious belief or matters of faith. All texts and all religious traditions will be examined analytically. Students are expected to understand and master this approach, which includes questioning conventional cultural assumptions about the historical composition and authorship of the Bible. Willingness to ask such questions and openness to new ways of thinking and reading are essential to successful participation in the course.

Style: 90% Lecture, 10% Discussion.
Grading: 20% mid exam, 25% final exam, 30% reports/papers, 5% written homework, 20% additional semester exams. Regular very short homework assignments are collected; best 10 out of 12 are counted. There will be two mid-term exams each worth 20%. There will be two short papers each worth 15%.
Exam Format: Each exam is 50% essay and 50% multiple choice.

REL 3070 Topics in Religious Studies
A-F only, 3 credit(s);
Instructor: Matar, Nabil I
Description: This course is designed to provide an introduction to the mystical and magical tradition in Judaism. We treat the origins of mysticism in the Bible and ancient Judaism, the flowering of mysticism in the medieval period, the origins and development of the Kabbalah, and modern forms of mysticism, such as Hasidism. We also explore the intersection of the mystical tradition with magical phenomena and messianic movements. Topics that will be discussed include prophecy and visionary activity, mystical approaches to secret knowledge, traditions of heavenly ascent, magical techniques, Kabbalistic ideas of divine knowledge and emanation, the origins of evil, the entire dimension in Kabbalah, and the diffusion of Kabbalah in popular American culture. Throughout, students engage with the Jewish mystical and magical tradition through close reading and discussion of the central primary mystical and magical texts of Judaism.

Style: 75% Lecture, 25% Discussion.

REL 3081 The Bible: Context and Interpretation
3 credit(s); prerequisite credit will not be granted if credit already received for: ReIA 3081, CNES 1201, CNES 3201, JWST 1201, JWST 3201; Credit will not be granted if credit has been received for: CNES 3201; Meets CLE req of Literature Core;
Instructor: Levinson PhD, Bernard M
Description: The course attempts to get behind the overlay imposed by modern culture upon the Old Testament/Hebrew Bible and to read it on its own terms. In order to do so, students will explore the fascinating literature and religion of the ancient Near East. We will read texts from ancient Mesopotamia, Canaan (Ugarit), and Israel, and discuss both the ideas found in them and their literary artistry. After investigating the literature of Israel's neighbors, we will read biblical literature in dialogue with these stories, intellectually analyzing the narratives of the creation of the world, the origin of life, the great flood story, the idea of divine revelation, and the significance of law. Specific topics to be dealt with include: God, creation, fate, the point of human life, and the meaning of history. The course teaches students how to read closely and to think critically about the meaning of a text. Students will be asked to read primary
sources for specific questions of content and meaning, frequently with the help of assignment sheets, and to learn a methodology for deciding between right and wrong answers. The skills thereby learned will assist students with any other course in the Liberal Arts. The assumptions of the course are academic and secular, as required by the First Amendment. Consequently, the course does not address personal religious belief or matters of faith. All texts and all religious traditions will be examined analytically. Students are expected to understand and master this approach, which includes reading original sources and engaging with the philosophical and cultural assumptions about the historical composition and authorship of the Bible. Willingness to ask such questions and openness to new ways of thinking and reading are essential to successful participation in the course.

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

**Grading:** 20% mid exam, 25% final exam, 30% reports/papers, 5% written homework, 20% additional semester exams. Regular very short homework assignments are collected; best 10 out of 12 are counted. There will be two mid-term exams each worth 20%. There will be two short papers each worth 15%.

**Exam Format:** Each exam is 50% essay and 50% multiple choice.

**RELS 3373 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: Wahtner, 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.

**Grading:** 25% mid exam, 35% final exam, 20% reports/papers, 20% other evaluation.

**RELS 3415W Art of India**

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

**Description:** When one thinks of the countries comprising South Asia - India, Pakistan, Afghanistan and Bangladesh - Westerners often think of massive social, political and economic problems. Not adequately recognized, however, is the power of art in the region: the power to induce the Taliban to destroy the massive and world renown Bamiyan Buddhas, the power to stimulate mobs intent on ransacking an exhibition of art or to destroy a mosque of great historical importance. By looking at the power of art in this part of the world, we can better reflect on the power of the visual world around us every day. Simply stated, the art of South Asia is extraordinary. The course will examine both secular art and the works produced for the region's several religions, reflecting a diversity not unlike that of the United States. In the process, students will be given an opportunity to examine critically art and its production as well as the ways in which the art has been used and understood both at the time of its creation and subsequently. There will be two exams and one paper. Discussion sections will offer the opportunity to probe the material in greater depth and review as necessary. All material discussed in class will be available on the Web. The course assumes neither prior knowledge of India nor of art history.

**Style:** 80% Lecture, 20% Discussion.

**Grading:** 25% mid exam, 25% final exam, 40% reports/papers, 10% class participation.

**Exam Format:** 50% essay, 50% multiple choice.

**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: Snyder, Edward N

**Description:**

**RELS 3671 Hinduism**

3 credit(s); Meets CLE req of Other Humanities Core; Instructor: Junghare, India Y

**Description:** This course is an examination of the development of Hinduism -- a complex and diverse tradition of philosophies, rituals and worship, festivals and pilgrimage, asceticism and hedonism. The course will focus on sectarian trends, present-day religious practices, and the interrelationship between Hinduism and Indian social structure.

**Style:** 80% Lecture, 20% Discussion, films, videos and speakers

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

**Exam Format:** Multiple choice and essay

**RELS 3712 Islam: Religion and Culture Islam**

3 credit(s); prereq credit will not be granted if credit already received for: RelA 3036; Credit will not be granted if credit has been received for: ARAB 3036; Meets CLE req of International Perspect Theme; Meets CLE req of Other Humanities Core; Instructor: Matar, Nabil I

**Description:** The purpose of this course is to introduce the theology and civilization of Islam in its Arabic legacy. In the centuries of its growth and development, Islam incorporated numerous cultures, languages, and ethnicities, at the same time that it inspired different literatures, artistic expressions, and religious positions. In focusing on the Arabic legacy, the course will address the formative beginnings of the Islamic Empires in their Umayyad (both Eastern and Western/Andalusian) as well as Abbasid histories. There is no serious understanding of Islam without a serious understanding of its formative text and traditions. And so a good amount of time will be spent reading the Qur’an and selections from the Hadith and the Sira. We then shall shift gear from theology to culture and history, examining other primary sources that represent the vast compendium of literature, art, and imagination of the Arab tradition. Texts such as the Thousand and One Nights (the earliest manuscript), Ibn Fadlan’s journey into Eastern Europe (on which Eaters of the Dead/The Thirteenth Warrior were based), an Arabic view of the Crusades, along with a major history textbook, will be used. I will ask you to view two films on your own. In all our study of the material, we shall see if there are links to modern times, and how millennium-old events and texts may help us understand the complexity of today’s changes.

**RELS 3714 Islam and the West**

3 credit(s); Credit will not be granted if credit has been received for: CAS 3533; Instructor: Bashiri, Iraj

**Description:** Intellectual trends defining fundamental differences between Islam and the West arise from their respective historical, philosophical, and intellectual mindsets. The course examines contributing factors to tension, anxiety, and hatred between Muslims and the West, as well as aspects of Islamic and European cultures that inspire respect and emulation. Objectives: - Acquaint students with the fundamental differences between Islam and Western culture. - Equip students with the means for a better understanding of international events. - Teach students to distinguish different trends and accept them for what they are. - Discuss factors that create tension, anxiety and hatred among peoples and nations. - Examine aspects of Islamic and European cultures that inspire respect and emulation.

**Style:** 80% Lecture, 10% Film/Videocassette, 10% Discussion, 20% Student Presentation.

**Grading:** 37% reports/papers, 20% special projects, 40% quizzes, 3% attendance.

**RELS 5112 Jewish Mysticism, Magic, and Kabbalah**

A-F only, 3 credit(s); prereq credit will not be granted if credit already received for: RelS 3112, RelA 5112, RelIS 5112,
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: Wattler, 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
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 pathology, 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 4301 Seminar: Research Project and Publication
A-F only, 2 credit(s); prereq 3102, BAS respiratory care major;
Instructor: STAFF
Description: Students will be responsible for preparing a research project for submission. This includes assembling a poster, abstract, or manuscript of original research. Research mentors will be assigned to allow guided independent study. In cooperation with Mayo School of Health Sciences, Rochester.

RC 4596 Subspecialty Clinical Practicum in Advanced Respiratory Care II
S-N only, 3 credit(s); prereq 3302, BAS RC student;
Instructor: STAFF
Description: Students will complete competencies focused in the areas of advanced-level respiratory care including clinical subspecialties and related areas important to the respiratory care practitioner desiring greater scope of practice. Rotations are 8 weeks in length and include 120 hours of directed clinical experience. Rotations are conducted at facilities within the Mayo Health System and institutions affiliated with the University of Minnesota. Two rotations can be completed in one semester. 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.
RUSS 1102 Beginning Russian II
5 credit(s); prereq T101 or equiv; Credit will not be granted if credit has been received for: RUSS 4102;
Instructor: STAFF
Description: The Beginning Russian course develops the four basic language skills - speaking, understanding, reading, and writing - in a balanced, highly integrated manner. Students do regularly assigned grammar exercises, listen to tapes, and are required to participate in each class session. Active control of Russian structure is the principal criterion for evaluation. Style: 30% Lecture. Instructor guided oral exercises. Grading: 40% final exam, 40% quizzes, 10% class participation, 10% other evaluation. Homework. Exam Format: Fill in blanks, translation, writing short paragraphs, answering questions, listening comprehension.

RUSS 3311 Russian Major Project
A-F only, 3 credit(s); prereq Advanced Russian major; Credit will not be granted if credit has been received for: RUSS 3311H;
Instructor: STAFF
Description: This 3-credit course is designed for and required of all students majoring in Russian, except for Honors students (see Russ 3312). It consists of writing a research paper of no less than 20 typewritten double-spaced pages, under the guidance of two faculty members in the Russian program. Topics are chosen by students in consultation with their faculty advisors. Students have scheduled individual meetings with the advisors. The Director of Undergraduate Studies coordinates all projects, and students should consult her/him before signing up for the course. Projects should show evidence of original thinking, the ability to use secondary sources (critical and scholarly literature) appropriately, and the ability to analyze and present arguments effectively. Unacceptable projects include book reports, plot summaries, or translations. The project should be linked to the student's course work within the Russian major, i.e. the student should have some academic background in a particular area before undertaking to write a paper in that area. The language of the paper should be English. The paper should show evidence of appropriate use of Russian-language sources.

RUSS 3311H Honors Major Project in Russian
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed; prereq Advanced Russian major; Credit will not be granted if credit has been received for: RUSS 3311H;
Instructor: STAFF
Description: This course is designed for and required of all Honors students majoring in Russian. It consists of writing a research paper of no less than 35 typed double-spaced pages, under the guidance of two faculty members in the Russian program. Candidates for summa cum laude need three faculty readers, one of who should be outside the Russian department.

Instructor: Williams, Denise Elizabeth
Description: This course is the first in a two-course sequence on Beginning Russian. Upon completion of the two courses, a diligent student can expect to be able to pronounce Russian words with reasonable correctness; compose grammatically correct, if fairly simple, sentences; understand Russian (within the parameters of the vocabulary with which the student is familiar) as spoken conversationally, at normal tempo, by well-educated native speakers; respond appropriately, if briefly, to common requests; and read everyday Russian (the Russian of newspapers, for example) with the aid of a dictionary. In order to speak Russian effectively, you would need to get practice speaking Russian with others. Russian is among the more difficult languages for a native speaker of English to learn, but if you are willing to invest a fairly considerable amount of time and effort, you can learn a great deal in this course.

Style: This is a printed correspondence section. Grading: 20% midterm exam, 30% final exam, 50% written homework.

RUSS 3002 Intermediate Russian II
5 credit(s); prereq 3001 or instr consent; Credit will not be granted if credit has been received for: RUSS 4104;
Instructor: STAFF
Description: Textbook: "Nachalo" We are continuing the simultaneous development of speaking, listening, reading and writing skills. The course is designed to prepare students for the language proficiency exam (LPE) in Russian. We will carry on conversation based on the material in text, have translation exercises, group activities, guided exercises to reinforce the grammar and vocabulary. There will be a quiz after each chapter, and a short quiz after the first 2 parts of the chapter (this will help you to better solidify the learned material). We will also be reading some short stories, will answer questions, and will discuss them in class. You will write a short essay on each story read.

Style: 20% Lecture, 50% Discussion. guided exercises, interaction, conversation
Grading: 40% final exam, 40% quizzes, 10% class participation, 10% other evaluation. homework

RUSS 3102 Advanced Russian II
4 credit(s); prereq 3101 or instr consent;
Instructor: STAFF
Description: Text: "V Puti - Russian Grammar in Context". Attention will be given to developing reading comprehension, conversational competence, grammatical accuracy, and cultural sophistication. We'll discuss grammar and word study. We will read stories and other texts, and will paraphrase them, answer the questions and carry on discussions in class. You will write essays on the material we have read. Regular attendance is very important for your progress. Class participation and homework constitutes 20% of your grade. If you miss a class, it is your responsibility to find out what was covered, whether any changes were announced, etc. You can make up for a test, if you missed it due to illness or emergency. You are encouraged to take advantage of the instructor's office hours to discuss the material or any problems. During this semester each student will give a 10 minute informal oral presentation on an important or interesting event which happened around the world during the last week. The purpose is to give you an opportunity to do some individual research, be creative and to practice your oral speech. There will be 3 compositions, 3 double-spaced pages each. Correct grammar, spelling, sentence structure, content (clear, logical thought). There will be a quiz after each chapter and a final written exam.

Style: 20% Lecture, 20% Discussion. Russian language interaction
Grading: 20% mid exam, 30% final exam, 10% reports/papers, 20% quizzes, 10% in-class presentation, 10% class participation, 1 oral report
Exam Format: Fill in the blank, short essay, translation, answering questions.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Topics are chosen by students in consultation with their faculty advisors. Students have scheduled individual meetings with the advisors. The Director of Undergraduate Studies coordinates all projects, and students should consult her/him before signing up for the course. Projects should show evidence of original thinking, the ability to analyze, and to present arguments effectively. Unacceptable projects include book reports, plot summaries, or translations. The project should, in some way, be linked to the student's course work within the Russian major, i.e., the student should have some academic background in a particular area of study before undertaking to write a paper in that area. The language of the paper should be English. The paper should present evidence of appropriate use of Russian-language sources.

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: The course is divided into two halves: during the first half (before spring break) we will read selected short works, mostly stories, of Tolstoy and Chekhov. After spring break and till the end of the semester we will read three novels: Solzhenitsyn's Cancer Ward, Bulgakov's Master and Margarita, and Pasternak's Doctor Zhivago. The course as a whole may be seen as an exploration of the organic literary worldviews, the "gospels," so to speak, of each author; to wit, Tolstoy: the immediate awareness of death releases consciousness; Chekhov: humankind is made of one substance; Solzhenitsyn: male liberation is found in transcending the feminine principle; Bulgakov: putative evil unwittingly performs good; and Pasternak: Truth is found in the indissolubility of two loves. The project should, in some way, be linked to the student's course work within the Russian major, i.e., the student should have some academic background in a particular area of study before undertaking to write a paper in that area. The language of the paper should be English. The paper should present evidence of appropriate use of Russian-language sources.
Style: 25% Discussion, guided research
Grading: 100% other evaluation, finished research paper

RUSS 4102 Beginning Russian 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: RUSS 1102;
Instructor: Schweikert,Maria S
Description: Student may contact the instructor or department for information.

RUSS 4102 Beginning Russian II
3 credit(s); prereq 4101, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: RUSS 1102;
Instructor: Walter,Ronald F.
Description: Student may contact the instructor or department for information.

RUSS 4104 Intermediate Russian II
3 credit(s); prereq 4103, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: RUSS 3002;
Instructor: Schweikert,Maria S
Description: Student may contact the instructor or department for information.

RUSS 4104 Intermediate Russian II
3 credit(s); prereq 4103, [fourth sem course in another language or grad student]; Credit will not be granted if credit has been received for: RUSS 3002;
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. The 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
Scandinavian

205 Folwell Hall

SCAN 3503 Scandinavian Folklore
3 credit(s); Meets CLE req of Literature Core;
Instructor: Norman.Lena Elisabeth
Description: Student may contact the instructor or department for information.

SCAN 3601 Great Literary Works of Scandinavia
3 credit(s); Meets CLE req of Literature Core;
Instructor: Houe,Poul
Description: The course examines major works of Scandinavian literature from the Middle Ages to the present: An Icelandic saga (13th C); tales by Hans Christian Andersen and a philosophical novel by Kierkegaard (early to mid 19th C); plays by Ibsen and Strindberg and a novel by Hamsun (late 19th C); poems by Edith Sodergran (early 20th C); and recent international bestsellers by Scandinavian masters and newcomers. Danish, Norwegian, Swedish, Finland-Swedish, and Icelandic literature are represented almost equally, while the emphasis is on literature after the modern breakthrough, the historical dimension will not be neglected, and all texts will be discussed in their social, cultural, and artistic context. A guiding hypothesis throughout the course will be that for readers and writers to find their own stories, they must tell and retell the stories of the world. During the course we will explore how this has been done by great Scandinavian writers.
Style: 40% Lecture, 30% Discussion, 30% Small Group Activities.
Grading: 30% final exam, 50% reports/papers, 20% class participation.
Exam Format: Essay/take-home exam

SCAN 3593 Directed Studies
1-4 credit(s), max credits 16, 4 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: The purpose of this course, offered at the discretion of the faculty, is to provide individualized instruction to advanced undergraduate and graduate students wishing to explore specialized topics not covered in regular course offerings. The number of credits for which the course is taken, the number of students per year can be thus accommodated, preference is given to students in their final year of the Russian major and to graduate students in Russian Area Studies. The content and procedures of this course vary widely, depending upon agreement between student and instructor, and the number of credits for which the course is taken. Students must consult the Director of Undergraduate Studies in the Russian unit before registering for this course.
Style: guided research and discussion.
Grading: 100% other evaluation. student's work evaluated on the basis of variable course criteria

SCAN 3603 Scandinavian Folklore
3 credit(s); Meets CLE req of Literature Core;
Instructor: Houe,Poul
Description: The course examines major works of Scandinavian literature from the Middle Ages to the present: An Icelandic saga (13th C); tales by Hans Christian Andersen and a philosophical novel by Kierkegaard (early to mid 19th C); plays by Ibsen and Strindberg and a novel by Hamsun (late 19th C); poems by Edith Sodergran (early 20th C); and recent international bestsellers by Scandinavian masters and newcomers. Danish, Norwegian, Swedish, Finland-Swedish, and Icelandic literature are represented almost equally, while the emphasis is on literature after the modern breakthrough, the historical dimension will not be neglected, and all texts will be discussed in their social, cultural, and artistic context. A guiding hypothesis throughout the course will be that for readers and writers to find their own stories, they must tell and retell the stories of the world. During the course we will explore how this has been done by great Scandinavian writers.
Style: 40% Lecture, 30% Discussion, 30% Small Group Activities.
Grading: 30% final exam, 50% reports/papers, 20% class participation.
Exam Format: Essay/take-home exam

SCAN 3593 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

SCAN 5613 Contemporary Scandinavian Literature
3 credit(s);
Instructor: Houe,Poul
Description: This course explores Scandinavian fiction, drama, lyrical poetry, and essayistic criticism since WWII. Emphasis will be on one major novel—typically a fictional journey of life—from each of the five Scandinavian countries, and on selected shorter texts by Scandinavian critics, poets, and playwrights. Thematically, the continued dominance of modernism will be seen as challenged by various strands of realism and by various reconfigurations of modernism itself, such as postmodernist modes, new strategies and roles for the reader, and new notions of the author's verbal and imaginative craft. Around 2000 a simultaneity of literary positions, discourses and voices seems to have supplanted the more univocal scenarios of previous decades, and the literary scene to have increasingly become a field of artistic transformations. This overall picture will be further nuanced by references to the relevant historical and socio-cultural circumstances of each Scandinavian country and by mappings of pertinent literary influences from abroad. A balanced view of Scandinavian distinctions and international interdependency will thus be attempted. In like manner, the course, which is intended for graduate students and advanced undergraduates, will seek to balance lecture surveys with in-depth discussions of individual texts, authors, and their national and transnational characteristics.
Style: 40% Lecture, 50% Discussion, 10% Student Presentation. 1 student oral presentation/special project
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% other evaluation. 1 student oral presentation/special project counts for 10% of total grade
Exam Format: take home essay exam

SCAN 5710 Topics in Old Norse Literature
3 credit(s), max credits 9, 3 completions allowed; prereq 5701 or equiv;
Instructor: Liberman,Anatoly
Description: Student may contact the instructor or department for information.

SCAN 5993 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study. The student approaches an appropriate professor with a topic of interest, and if the professor has time and is willing to guide the student, the student, along with the professor, fills out a form which is available in the department office (205 Folwell). On this form, they specify the topic, reading and study materials, and form of evaluation.

Social Work

105 Peters Hall

SW 1001 Introduction to the World of Social Work: A Global Perspective
3 credit(s);
Instructor: Knust,Diane M
Description: Social Work has a rich history that provides a foundation for its development as a profession concerned about
people and their social environment. Early social work was and continues to be driven by a passion to create a just society through insuring that individuals have rights to equal access to the basic human needs of food, shelter, clothing, medical care, meaningful work, and the expression and acceptance of individual differences. Initially social workers advocated for changes in the Poor Laws that prescribed incarceration for those without employment. Social Workers created settlement houses for those who were homeless and living in poverty and were instrumental in changing policies and attitudes toward this population. The amelioration of problems associated with alcohol abuse was addressed through social work’s involvement in abolitionist movements such as the Women’s Temperance Union. Social casework developed as means of monitoring and providing services to the homeless and inebriates in lieu of incarceration while psychiatric social work provided a unique perspective for treatment and discharge planning for patients in mental hospitals. Today social work is still involved in all these areas, and we have much to learn from other countries and the ways they organize for social welfare. Social Workers recognize the strengths individuals bring to cope with whatever circumstances confront them across the life cycle, as well as those systems created to provide support. The focus is bringing into alignment the individual and the system working together to ameliorate distress and improve the client’s self-efficacy and sense of well-being. Sometimes the effort is centered on empowering the individual, at other times on changing the system, and often on both. While systems initially included close family, friends, community, occupation, policies, culture, etc., the definition has expanded. Today, the boundaries of system extend far beyond the borders of the United States. This global system impacts both personally and directly things that happen throughout the world. The course includes an intentional focus on international policies, immigrant populations, human rights, the physical environment, world hunger, restorative justice, and trauma intervention, because they all impact the human experience in the U.S. more than ever before. The Code of Ethics of the National Association of Social Work states: “The mission of the social work profession is rooted in a set of core values. These core values, embraced by social workers throughout the profession’s history, are the foundation of social work’s unique purpose and perspective.” These core values are: service, social justice, dignity and worth of the person, importance of human relationships, integrity and competence.

SW 1501 Introduction to Peace Studies
A-F only, 3 credit(s);
Instructor: Menanteau, Dario
Description: This course provides an introduction to peace studies—a”interdisciplinary field that considers questions such as: how can human conflicts be resolved in ways that promote justice and peace? We will explore definitions, conditions, and causes of violence, nonviolence, war, and peace? be it between nations, groups, or individuals. In this work, we will study distinctions between the concepts of negative peace, or the absence of war, and positive peace, understood as the presence of values and practices which promote justice and well-being within a society (such as economic and social justice and environmental stewardship). The class will also distinguish between overt forms of violence (be it collective or individual) and what Johan Galtung has termed cultural violence: those practices which disadvantage people due to unjust political or economic systems, and/or cultural traditions. Participants in the class will explore a broad range of historical examples of ways that people have responded creatively to situations of violence and injustice, and from this study, construct their own understandings of creative response to conflict.

SW 1905 Freshman Seminar: High School: Moments, Memories & Meanings
2 credit(s), max credits 6; prerequisite Fr;
Instructor: Baizerman, Michael Leon
Description: A course on “images of youth” can be about the many actual and possible representations of young people. As such, a course would examine a variety of notions about youth, the actual persons and “youth” the representation. Examination could be about the personal, social, and cultural spaces between actual (young) persons and their images and other representations, and how these vary (or not) by historical period, social class, food, ethnicity/race, geography, social class, sex/gender, language, and the like. Attention could be given to how these representations are (are not) embedded in larger reticula of scientific and lay theories of these people, their “stage of life”, what is “natural” about their being as they are and doing as they do and what is “essential” (and/or the essence) of their personalities and the roles they play in the popular media, in scientific theories, in novels, films and plays, and in music, poetry, and art, for instance. This seminar will explore some of these and some other related themes in pursuit of responses to the focal questions of this course: How are youth portrayed in a variety of media; how are they represented, and what are some images of youth which seem to guide our collective and individual responses to real world, everyday-life youth, and how are these images used by young people and adults to fashion their multiple identities in everyday life and in the reflective, personal self. In the University, “youth” is a subject (and object) “owned” by many academic disciplines and professions, and there can be (and is) disagreement between and among these about “the true nature” of these persons, the best ways to “enhance their healthy development” and to facilitate their “growing up” and “coming of age”, and their place(s) within family, neighborhood, community, and nation. That is, “youth” is “contested terrain” and the vocabulary and rhetorics of this ongoing, but always changing (somewhat) “youth discourse” will also be a focus of this course. Framed thus, it is clear that there are a vast array of traditional disciplines and professions contributing theories, concepts and images to our subject. Any one of these can invite life-long inquiry and many will be new to you. That’s inevitable and fine, because while you experts in how you did (are doing) your youth, you are not expected to be so on the many ways you are represented in our culture and society. Indeed, that’s why we are together in this Seminar to explore and try to understand how (and why ) youth are portrayed as they are. By the end of our work together, we both will have a better grasp of the issues, questions, responses, and answers.
Style: 30% Lecture, 10% Film/Video, 40% Discussion, 20% Field Visits.
Grading: Grading is finalized after negotiated assignments/papers.

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: Fisher, Colleen
Description: This course is the first of three required courses that are part of the new interdisciplinary, cross-college undergraduate minor in Social Justice. In this course, we will focus on the meanings of social justice by looking at three key socio-political areas of study: globalization, criminal justice and social welfare. We will also look at how various activists from these arenas work for social change, and finally we will engage in community-based education (service learning) where we will volunteer in social justice organizations locally. Given the dilemmas we face on this planet regarding our survival as culturally diverse people, social justice is the place for us to explore. As we become more proficient analytical thinkers and writers, perhaps we will also become more knowledgeable citizens, more competent communicators, and people who can make the world a better place for all human beings. Living in a democracy means that we, as citizens, have a great deal of responsibility. By looking at the meanings of social justice and at how different people and organizations work for social justice, we will explore how activism is deeply connected to citizenship and democracy. 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.

**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: Philibs, Anne Elizabeth

**Description:** Development of gay, lesbian, bisexual, and transgender (GLBT) social movement historically. Current state of GLBT movement. Readings draw on social movement theory, and GLBT Studies. Interdisciplinary course with classroom and community service learning.

**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 30 hours of 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:** 35% special projects, 20% reflection paper, 30% class participation, 15% other evaluation. Other Evaluation: service learning.

**SW 3701 Introduction to Child Maltreatment: Intervention and Prevention**

3 credit(s); Instructor: Gilgun, Jane F

**Description:** This interdisciplinary liberal arts course is a comprehensive study of child maltreatment as a form of family violence today. It is intended to offer the undergraduate student a wide breadth of understanding regarding the prevalence, scope, dynamics, contemporary responses and prevention strategies for child abuse and neglect. It will consider individual, familial, and community analysis of the issue. The course is structured to examine child abuse within an ecological perspective and a risk/resilience framework. It will address developing strategies likely to support healthy children, families, and communities. This should be considered a beginning study for students interested in working with children, their families and child welfare policies. Course content is particularly relevant to students in the fields of social work, sociology, education, child psychology, early childhood education, public health, public policy, and other related areas.

**SW 3702 Introduction to Adult Intimate Partner Violence: Intervention and Prevention**

3 credit(s); Instructor: Witt, Jennifer Lynn

**Description:** This course is designed as an introduction to the study of Intimate Partner Violence (IPV) in the adult population. It will introduce students to current theories, research, and prevention practice in the area of family violence. The content of the course focuses on the intervention and prevention of intimate partner violence, including preventing violence against women (battering, sexual assault, stalking) and abuse of vulnerable adults (elderly, non-elderly vulnerable populations) within the United States. A major emphasis in this course will be on prevention of adult IPV and social interventions aimed at ending violence in families once it occurs. This includes direct work with victims of abuse, assailants, and their families as well as community-level and policy interventions. The course will also integrate issues of gender, race, culture, age, physical ability, socio-economic status, and sexual orientation throughout our examination of these topics. This course is open to all undergraduates and serves as a required course in the Family Violence Prevention Minor. Because other required courses in the Minor cover child maltreatment and gender violence in global perspectives, this course will emphasize prevention and intervention practices with a focus on family violence against adults in North America.

**SW 4501 Senior Seminar in Social Justice**

A-F only, 4 credit(s); prereq 2501, 3501;

**Instructor:** Albrecht, Lisa D

**Description:** This course is the last of three required courses that are part of the interdisciplinary, cross-college undergraduate minor in Social Justice. This seminar brings together the theories and practices of social justice that you have explored as part of your required minor courses and your elective courses, and your community-based learning experiences. We will continue to engage in dialogue about the many meanings of social justice, and we will also focus two issues of contemporary importance: immigration and terrorism. The key work of this seminar will be your own self-designed final social justice portfolio. It will represent the culmination of your experiences as a student in the social justice minor program. Each student will complete a social justice portfolio, and present their work to the seminar as well as the general public. As we have done in each of the required courses, we will continue to ask ourselves questions about the meanings of citizenship and democracy in the U.S., particularly as they relate to social justice. We will also continue to do community-based learning (service learning) in a social justice organization. Another major goal of this course is to create a community of learners in our classroom. In forming this environment, students should be prepared to be active in class. Since this is not a lecture class, we will spend most of our classroom time together talking with each other. Listening to each other, and learning to give constructive feedback will allow our community to flourish, and will give each of us individually new perspectives on our own writing and thinking processes. The course is planned carefully, especially the community-based learning experiences. Please don’t fall behind; the sequence of readings and activities are meant to be done in the order I’ve assigned them.

**Style:** 25% Discussion, 30% Small Group Activities, 25% Student Presentation, 5% Guest Speakers, 15% Service Learning.

**Grading:** 15% reports/papers, 55% special projects, 15% class participation, 15% other evaluation.

**SW 5313 Social Work with Older Adults**

2 credit(s); prereq Grad or non-degree seeking student or instr consent;

**Instructor:** Lee, Hee Yun

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

**SW 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 5512 Developing and Managing an Agency Budget
1 credit(s); prereq MSW student or instr consent;
Instructor: Cain, Therese Marie
Description: Student may contact the instructor or department for information.

SW 5514 Strategic Risk Management in Agencies
1 credit(s); prereq MSW student or instr consent;
Instructor: Cain, Therese Marie
Description: Student may contact the instructor or department for information.

SW 5519 Mediation and Conflict Resolution
3 credit(s); prereq 8519;
Instructor: Umbreit, Mark S
Description: Student may contact the instructor or department for information.

SW 5708 Substance Abuse and Social Work
3 credit(s); prereq Grad or non-degree seeking student or instr consent;
Instructor: Dimock, Peter Trier
Description: Student may contact the instructor or department for information.

SW 5810 Seminar: Special Topics
2 credit(s), max credits 10; 3 completions allowed;
Instructor: Hollister, C David
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: Ophasiri, Irene M
Description: Student may contact the instructor or department for information.

SW 8010 Seminar: Field Practicum I
S-N only, 1-8 credit(s), max credits 8; prereq 8201;
Instructor: Davila-Williams, Sonia
Description: Student may contact the instructor or department for information.

SW 8020 Field Practicum II
S-N only, 1-6 credit(s), max credits 6; prereq 8010;
Instructor: Maxwell, Steve
Description: Student may contact the instructor or department for information.

SW 8020 Field Practicum II
S-N only, 1-6 credit(s), max credits 6; prereq 8010;
Instructor: Vande Berg, Anne Wellington
Description: Student may contact the instructor or department for information.

SW 8020 Field Practicum II
S-N only, 1-6 credit(s), max credits 6; prereq 8010;
Instructor: Miedema, Janelle Rae
Description: Student may contact the instructor or department for information.

SW 8020 Field Practicum II
S-N only, 1-6 credit(s), max credits 6; prereq 8010;
Instructor: Walthour, Kate Ann
Description: Student may contact the instructor or department for information.

SW 8030 Advanced Standing Social Work Practicum
S-N only, 1-8 credit(s), max credits 8; prereq Adv standing;
Instructor: Davila-Williams, Sonia
Description: Student may contact the instructor or department for information.

SW 8101 Social Policy and Delivery Systems for Child Welfare and Family Services
A-F only, 3 credit(s); prereq [8211, advanced standing] or instr consent;
Instructor: Kincaid, Tamara
Description: Student may contact the instructor or department for information.

SW 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: Gibson, Priscilla A
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: Bogenschutz, Matthew David
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: Hollister, C David
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;
Description: 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 8315 Mood Disorders: New Directions in Clinical Care
2 credit(s); prereq [Foundation coursework, advanced standing] or instr consent;
SAP8100 Seminar
A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq Grad SAPh major or instr consent;
Instructor: Strand, Ph.D. Linda Mae
Description: Student may contact the instructor or department for information.

SAP8100 Seminar
A-F only, 1 credit(s), max credits 8, 8 completions allowed; prereq Grad SAPh major or instr consent;
Instructor: Schommer, Jon C
Description: Student may contact the instructor or department for information.

SAP8173 Principles and Methods of Implementing Research
3 credit(s); prereq Two grad stat courses; Credit will not be granted if credit has been received for: NURS 8173;
Instructor: Gross, Cynthia R
Description: Student may contact the instructor or department for information.

SAP8200 Research Problems
1-8 credit(s), max credits 16, 16 completions allowed; prereq Grad SAPh major or instr consent;
Instructor: Skaar, Debra Jane
Description: Student may contact the instructor or department for information.

SAP8420 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.

SAP8840 Social Measurement
A-F only, 3 credit(s); prereq Intro stat course, understanding of simple correlations or instr consent;
Instructor: Cline, Richard R
Description: Student may contact the instructor or department for information.

Sociology
909 Social Sciences Tower

SOC1001 Introduction to Sociology
4 credit(s); prereq Soc majors/minors must register A-F; Credit will not be granted if credit has been received for: SOC 1011V; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Swartz, Teresa Toguchi
Description: This course is designed to introduce you to the study of society and what Mills calls the “sociological imagination:” a way of viewing the events, relationships and social phenomena that shape our individual lives and much of our collective experience. Through the course we will examine some of the central concepts and problems that have preoccupied both classical and contemporary sociologists, and gain a sense of how the sociological imagination can illuminate the social forces that have a concrete impact on our everyday lives. We will first explore the creation and maintenance of the social order as well as the social processes by which people develop a sense of self and negotiate meanings in everyday social interactions. We then take a look at social structure, social institutions and social stratification. Finally, we will explore how, why, and when social life changes. Throughout the course you will be asked to consider the ways in which society affects your life, and how you, in turn, affect society. Class time will be a mix of lecture, discussion, multimedia, small group work and in-class exercises. The course is targeted to undergraduate majors and non-majors.
Style: 50% Lecture, 20% Discussion. videos, small group work,
in-class activities, other
Grading: 45% mid exam, 40% reports/papers, 15% other evaluation. class participation/activities/quizzes/laboratory
Exam Format: multiple choice, short answer, short essay
SOC 1001 Introduction to Sociology
4 credit(s); prereq Soc majors/minors must register A-F; Credit will not be granted if credit has been received for: SOC 1011V; meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Macmillan, Ian Ross
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: 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 1011V Honors: Introduction to Sociology
4 credit(s); prereq honors; Credit will not be granted if credit has been received for: SOC 1001; meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; Instructor: Swartz, Teresa Toguchi
Description: This course is designed to introduce you to the study of society and what Mills calls the "sociological imagination": a way of viewing the events, relationships and social phenomena that shape our individual lives and much of our collective experience. Through the course we will examine some of the central concepts and problems that have preoccupied both classical and contemporary sociologists, and gain a sense of how the sociological imagination can illuminate the social forces that have a concrete impact on our everyday lives. We will first explore the creation and maintenance of the social order as well as the social processes by which people develop a sense of self and negotiate meanings in everyday social interactions. We then take a look at social structure, social institutions and social stratification. Finally, we will explore how, why, and when social life changes. Throughout the course you will be asked to consider the ways in which society affects your life, and how you, in turn, affect society. Class time will be a mix of lecture, discussion, multimedia, small group work and in-class exercises. This honors section provides an opportunity for more intensive discussion and for hands-on learning with original field research projects.
Style: 40% Lecture, 30% Discussion, videos, in-class exercises, student presentations, field research projects
Grading: 40% mid exam, 40% reports/papers, 20% other evaluation. participation/activities/presentations
Exam Format: multiple choice, short answer, essay from a number of recent documentary films such as Everything's Cool, Daddy & Papa, The Boys of Baraka and Omar & Pete.
Style: 30% Lecture, 25% Film/Video, 45% Discussion.
Grading: 15% mid exam, 15% final exam, 35% reports/papers, 15% in-class presentation, 20% class participation.
Exam Format: essay, as well as multiple choice and true/false

SOC 3090 Topics in Sociology
3 credit(s), max credits 6; prereq Soph or above or inst. consent; 1001 recommended; soc majors must register A-F; Instructor: Schurman, Rachel
Description: Did you ever wonder why so many of the items you buy at Target come from China or why a financial crisis that started on Wall St. and was rooted in U.S. mortgage securities caused the economy of Iceland to collapse? And why is the U.S. auto industry, once a motor of economic growth for the country and a key source of class mobility for many working class Americans, practically a thing of the past? This course will focus on the changes that have taken place in the global economy over the last sixty or so years, and the economic theories, institutional changes, and technological developments that have undergirded them. More concretely, we will examine the movement away from relatively regulated national economies and the rise of neoliberal ideology and policy. Among the substantive topics we will explore are the emergence of China as an economic powerhouse, the transformation of work associated with the new 'knowledge economy,' the World Trade Organization and new intellectual property rights regimes, changing cultures of capitalism, the Walmart phenomenon (in all its complexity), and the recent global financial crisis. Grades will be based on class attendance and active participation (25%), weekly one-page commentaries on the readings (20%), a mid-term exam (25%), and student research projects which will involve a class presentation and final paper (30%).
Style: 40% Lecture, 10% Film/Video, 30% Discussion, 5% Small Group Activities, 10% Student Presentation, 5% Guest Speakers.
Grading: 25% mid exam, 25% special projects, 20% written homework, 5% in-class presentation, 25% class participation. Students will do an individual or group project that will include an in-class presentation and an 8-10 page final paper.
Exam Format: The midterm exam will include short answers and two longer, in-class essays.

SOC 3101 Introduction to the American Criminal Justice System
A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; 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: 55% Lecture, 5% Film/Video, 20% Discussion, 10% Small Group Activities, 5% Guest Speakers. 1. documentary videos of police, courts, corrections; 2. Guest lecturers are Minnesota criminal justice professionals, including police officers, prosecutors, defense attorneys, judges, and corrections officials.
Grading: 10% class participation, 90% other evaluation.
NONCUMULATIVE exams + a NONCUMULATIVE final%

Exam Format: multiple choice, True/False, and short essays

SOC 3101 Introduction to the American Criminal Justice System
A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; 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. We study law enforcement, courts, prisons, jails, parole, and capital punishment. Additionally, we analyze 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.

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/minors must register A-F; credit will not be granted if credit has been received for Soc 3111;

Instructor: Ferrales, Gabrielle

Description: This course will address the social and legal origins of crime and crime control. We will focus on general theories of deviance/crime and present an overview of forms of social control. We will critically examine criminological, sociological and legal theories that explain the causes of crime. This course covers diverse types of crime, including: street crime, violent crime, white-collar crime, occupational crime, war crimes and torture. In addition, we will examine the punishment of crime, including policing, prosecution, sentencing and mass incarceration. There will be a particular focus on how crime and forms of social control impact social inequality and divisions around race, class, and gender.

Style: 45% Lecture, 5% Film/Video, 45% Discussion, 5% Small Group Activities.

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

Exam Format: Essay and short answer (1 mid-term, 1 final)

SOC 3211W American Race Relations
A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Logan, Enid Lynette

Description: This course is designed to provide you with an understanding of the contours of race in the post-civil rights era United States. Our goal is to examine the myriad ways that race structures American society and influences the experiences and life chances of all its members. In the opening sections of the class, we study definitions of race and major theories of how race and racism workin the contemporary U.S. The next unit begins with an overview of the concept of racial ?identity?, and asks how social location impacts one?s identity and daily interactions. After inquiring into the general process of identity formation, we look at the specific experiences of whites, African Americans, Asian Americans, Latinos, Native Americans, and multiracial Americans. Though our central focus is on race relations in today?s society, we also provide a historical overview of the experiences of each group in order to help explain their present-day social status. The next part of the course examines the significance of race in several specific contexts. We look at controversies over race and immigration, race and education, and race and popular culture. We close the course by considering the future of race relations in the U.S., and evaluating remedies to racial inequality.

Style: 35% Lectures, 15% Film/Video, 45% Discussion

Grading: 15% final exam, 45% reports/papers, 20% in-class presentation, 20% class participation.

SOC 3251W Sociological Perspectives on Race, Class, and Gender
A-F only, 3 credit(s); prereq Soc majors/minors must register A-F; Credit will not be granted if credit has been received for: AFRO 3251W; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Winchester, Daniel Alan

Description: This course will introduce students to a perspective that understands and examines race, class, and gender as broad social systems. While we often think of race, class, and gender as simply individual attributes that each of us "are" or "has" (e.g. a white, working class woman), this course will explore how these three dimensions impact and organize social life as a whole. Throughout the course, we will focus on how a sociological perspective helps us gain a better understanding of how race, class, and gender systems shape the social world in which we live and our experiences of that world. More specifically, special attention will be paid to how these three dimensions 1) organize societies, institutions, and social relationships in often unequal ways and 2) shape our identities and experiences as individuals. Readings will include selections from Cynthia Duncan's "Worlds Apart: Why Poverty Persists in Rural America," Susan Walzer's "Thinking About the Baby: Gender and Transitions into Parenthood," Massey and Denton's "American Apartheid," among others. We will also screen excellent documentary films about class, race, and/or gender issues, including "People Like Us" and "Race: The Power of an Illusion."

SOC 3301W Politics and Society
A-F only, 3 credit(s); prereq 1001 recommended; soc majors/minors must register A-F; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Social Science Core; meets CLE req of Writing Intensive;

Instructor: Broadbent, Jeffrey Praed

Description: Politics is part of society, but society includes much more than just formally political institutions such as voting, legislatures, and presidents. Society includes different forms of social organization and culture that exist in their own right, but also affect the behavior of politics. For instance, society is divided by categories of race, class, gender, age, education, religion, and associational life. These categories provide motivations such as preferences for nationalism, freedom or security. We can clearly see the effect of these categories and their specific contents in the current US presidential contest. But other societies, as well as international or global society, also have their own social and cultural characteristics. To explain the political behavior of individuals, communities, nations and the world, we have to understand their social and cultural characteristics. Sociology, the science of society, is the field of study that most directly focuses on the creation, maintenance and effect of these categories in modern, industrialized societies. Political sociology consists of the study of the interaction between social and cultural qualities and politics. This class will cover the core concepts, theories and findings of the field through lectures and discussions. One consistent theme will be discussion of the presidential election in these terms. Requirements include pop-quizzes, exercises, mid-term and final exam and term paper. For the term paper, the student can follow their interests and choose almost any topic, as long as it concerns how a given social and/or cultural category affects some political process at local, national, foreign or international levels. Topic must be approved by the instructor. This term the course will not include participant observation research.
Style: 60% Lecture, 40% Discussion.
Grading: 20% mid exam, 20% final exam, 30% reports/papers, 15% special projects, 10% quizzes, 5% class participation.
Exam Format: essay

SOC 3451W Cities and Social Change
3 credit(s); prereq 1001 recommended; soc majors/minors must register A-F; Meets CLE req of Social Science Core; meets CLE req of Writing Intensive;
Instructor: Gowan,Teresa
Description: Description: This course will use a combination of sociology, history, first-person accounts, and film to follow the rise of urbanism in Europe and the United States. We will read key texts by some of the great scholars and shapers of urban life, including Louis Wirth, Walt Whitman, Engels, W.E.B. DuBois, Guy DeBord, Jane Jacobs, Sharon Zukin and David Harvey, and apply their models to topics including the phenomenology of urban life, segregation and social control, the city as artistic milieu, ecological sustainability, the urban-suburban divide, and the contemporary "Brazillianization" of the American city. Lectures and group work, blogged discussions and reading reports, and qualitative fieldwork in the Twin Cities will help the students to develop their insights into cities and urban life. This process will culminate in a substantial term paper, developed through a three-stage planning, drafting, and revision process over several weeks.
Style: 30% Lecture, 40% Discussion. 30% writing exercises, films and other in-class activities.
Grading: 20% Official Blog Entries 10% ethnographic exercise 10% first exam 10% second exam 10% first polished draft 25% final paper 15% class and blog citizenship.
Exam Format: Mostly long answer.

SOC 3701 Social Theory
A-F only, 4 credit(s); prereq 1001 recommended; soc majors/minors must register A-F;
Instructor: Longhofer,Wesley
Description: This course serves up an introduction to classical and contemporary sociological theory using a smorgasbord of online digital content, including discussion forums, reading journals, lots of graphics and illustrations, and (of course) YouTube. The course itself covers the classical works of Max Weber, Emile Durkheim, and Karl Marx, as well as a variety of contemporary theorists. Each set of original readings is paired with accessible and fun lecture notes that bridge theory with our everyday lives. Activities and readings must be completed each week, but when and where you do them is up to you! Through this online course, you will develop a critical understanding of the Big Ideas in social theory and apply them to your social curiosities.
Style: 90% Web Based.
Grading: 40% mid exam, 20% final exam, 10% special projects, 10% quizzes, 20% journal.
Exam Format: Short answer, essay

SOC 3701 Social Theory
A-F only, 4 credit(s); prereq 1001 recommended; soc majors/minors must register A-F;
Instructor: Gerteis,Joseph Howard
Description: Theories are tools to help us understand and negotiate the world better. Because our social life is messy, sociological theory can never be as exact as the theories that physicists or mathematicians use. But good theories can help us see things that we did not (or could not) see before. In this class, we cover a range of social thought, from the classical works of Marx, Durkheim and Weber, through more contemporary theories of the social world. We emphasize three main goals: learning to read and understand key theoretical work in sociology; using work to better understand the social world around us; and along the way developing our own theoretical perspectives.
Style: 70% Lecture, 10% Film/Video, 20% Discussion.
Grading: 20% reports/papers, 65% additional semester exams, 5% attendance, 10% journal. Journals are interactive, built around on-line discussion forums.
Exam Format: Four in-class tests covering discrete course modules.

SOC 3701 Social Theory
A-F only, 4 credit(s); prereq 1001 recommended; soc majors/minors must register A-F;
Instructor: Gowan,Teresa
Description: Theories are ways of cognitively mapping 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 we 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 3801 Sociological Research Methods
4 credit(s); prereq 1001 recommended; soc majors must register A-F;
Instructor: Liebler,Carolyn
Description: This course focuses on the effective critical evaluation of sociological evidence. After introducing basic principles of sociological research, we will carefully read and analyze significant studies which exemplify each of four types of sociological research methods: field observations, historical archives, surveys, and experiments. No mathematical or statistical background is required.
Style: 60% Lecture, 5% Film/Video, 5% Discussion, 20% Laboratory, 5% Small Group Activities, 5% Guest Speakers.
Grading: 20% mid exam, 20% final exam, 30% reports/papers, 10% written homework, 10% class participation, 10% laboratory evaluation.
Exam Format: short answer and brief essay

SOC 3811 Basic Social Statistics
4 credit(s); Meets CLE req of Mathematical Thinking Core;
Instructor: Knoke,David H
Description: This is a social statistics course for undergraduate sociology majors. It emphasizes describing data and testing hypotheses. Lectures expose students to the theoretical bases of statistical methods and how to use them in social research. Laboratory sessions teach computing skills and data manipulation techniques. Test problems and lab assignments help students to gain knowledge of basic descriptive and inferential statistics, including frequency distributions, means tests, correlation and regression. Many examples are drawn from diverse sociological topics and illustrated with national survey data.
Style: 67% Lecture, 33% Laboratory.
Grading: 25% laboratory evaluation, 75% other evaluation.
Three exams during semester
Exam Format: Computation of statistics problems
questions. The course will enable students to conduct quantitative-oriented research and to use statistical techniques in their own projects, particularly in the senior project that is required for all sociology majors. In addition, the course laboratory provides instruction in the use of a statistical software package -- SPSS. Because this is a sociology course, our focus is how to use and interpret statistics, not on the mathematical proofs underlying the statistics that we use.

Style: 67% Lecture, 33% Laboratory.

Grading: 30% final exam, 30% written homework, 20% laboratory evaluation.

Exam Format: Computation of statistics problems

SOC 4101W Sociology of Law
A-F only, 3 credit(s); prereq [1001, 3101, 3102] or [3111, 3701] recommended; soc majors/minors must register A-F; Meets CLE req of Writing Intensive; Instructor: Ferrales,Gabrielle

Description: This course will consider the relationship between law and society, analyzing law as an expression of cultural values, a reflection of social and political structure, and an instrument of social control and social change. Emphasizing a comparative perspective, we begin by discussing theories about law and legal institutions. We then turn our attention to the legal process and legal actors, focusing on the impact of law, courts, and lawyers on the rights of individuals. Throughout the course, we will consider the role of law in reinforcing and changing class, gender, and race inequalities. Although this course focuses on the U.S. legal system, we will explore issues of the relationship between U.S. law and global law and concepts of justice. This course uses an array of reading materials including: theoretical works, empirical studies, and U.S. Supreme Court cases.

Style: 45% Lecture, 5% Film/Video, 45% Discussion, 5% Small Group Activities.

Grading: 20% mid exam, 20% final exam, 50% reports/papers, 10% class participation.

SOC 4105 Sociology of Punishment and Corrections
A-F only, 3 credit(s); prereq 3101 or 3102 or 3111 or inst consent; soc majors/minors must register A-F; Instructor: Page,Joshua A

Description: This course is an in-depth analysis of prisons in the United States. We examine the origins, functions, and effects of incarceration from the 19th century to the present. Topics include the culture and social relations in male and female prisons, the rise and fall of the rehabilitative ideal, the prisoner rights movement of the 1960s and 1970s, prison gangs, and the causes and consequences of America's extraordinary prison boom. We will study incarceration in several other countries to understand if and how imprisonment in the United States is unique. Although we focus on prisons, we will examine the relationship between incarceration and "community corrections" (e.g., parole and probation). This class combines readings, lectures/discussions, films, guest speakers, and at least one tour of a prison in Minnesota.

Style: 35% Lecture, 10% Film/Video, 35% Discussion, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers.

SOC 4108 Current Issues in Crime Control
3 credit(s); prereq Soc majors/minors must register A-F; Instructor: Macmillan,Ian Ross

Description: This course will survey and evaluate recent theory, research, and policy statements on the causes and control of interpersonal violence. In recent decades, violence has become increasingly prominent as a focus of public concern. Governments and academic bodies have supported numerous commissions and research projects on the causes and consequences of violence. Similarly, topics of crime and criminal justice policy in countries across the globe has stressed the desire for more effective control strategies. The major goal of this course is to evaluate theory, research, and policy on interpersonal violence in light of existing sociological theory and research.

Style: 60% Lecture, 30% Discussion.

Exam Format: multiple choice, short answer, essay

A-F only, 3 credit(s); prereq 3101 or 3102 or 3111 or inst consent; soc majors/minors must register A-F; Instructor: Uggen,Christopher

Description: This course examines how particular attributes or behavior are defined as deviant, the social consequences of formal and informal deviant designations, and the construction and imposition of norms, values, and rules. The subject matter is classified into four units. In the first unit, we take up some basic concepts that cut across theories and research on deviance, including social control, subcultures, and careers. The second unit is devoted to theories of deviant behavior and societal reaction. We then discuss methodology and how the "social facts" of deviance are determined and disseminated. Case studies in substantive areas are the fourth focus, addressing crime, organizational and occupational deviance, substance use, sexuality, suicide, disability, and mental illness. We close the course by revisiting the career concept with a focus on desistance, or leaving deviance. Course objectives include the following: (1) To understand how deviance is defined and produced; (2) To gain a working knowledge of the key sociological theories of deviance; (3) To apply the conceptual tools of these theories to selected case studies; and, (4) To critically evaluate institutional responses to deviance and control.

Style: 50% Lecture, 30% Discussion. media and in-class exercises

Grading: 25% mid exam, 30% final exam, 25% reports/papers, 10% special projects, 10% class participation.

Exam Format: Mixed -- typically 70% essay

SOC 4149 Killing
3 credit(s); prereq Sr or grad student; soc majors/minors must register A-F; Instructor: Malmquist,Carl P

Description: Sociological, legal, and psychological aspects of diverse types of killing. The topic of "normal" killings is contrasted with various pathological types. Subtopics include: mentally disturbed killings, sexual killings, killings within families, gang killings, and terrorist killings.

Grading: 10% case briefs; 20% discussion reaction essays

Exam Format: 70% identification, definition (no multiple choice); 10% case briefs; 20% discussion reaction essays

SOC 4162 Criminal Procedure in American Society
3 credit(s); prereq 3101 or 3102 or 3111 or inst consent; soc majors/minors must register A-F; Instructor: Samaha,Joel B

Description: Course Content: Balance between government power to enforce criminal laws and individuals' right to be let alone by the government in a constitutional democracy. Topics include: police power to stop and frisk, arrest, search, interrogate, and identify suspects; right to a lawyer; remedies for constitutional violation. 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. 90%, 13 non cumulative short answer and essay exams; 10%, participation in course surveys

Exam Format: 70% identification, definition (no multiple choice); 10% case briefs; 20% discussion reaction essays

SOC 4190 Topics in Sociology With Law, Criminology, and Deviance Emphasis: Crime and Human Rights
3 credit(s), max credits 6; prereq 1001 recommended; soc majors/minors must register A-F; Instructor: Savelsgberg,Joachim J

Description: This course addresses serious violations of humanitarian and human rights laws, efforts to criminalize those violations (laws and institutions), and consequences of these efforts. Special attention will be paid to the impact interventions have on memories of atrocities as such memories are likely to affect the future of cycles of violence. Section I provides an overview of the basic themes of this class and their interconnection: atrocities, legal and other institutional responses, and the ways responses mediate memory. Section II addresses a series of cases in which responses to past atrocities included criminal prosecution and trials: the Holocaust, the
Balkan wars, and the My Lai massacre during the Vietnam War. A special focus will be on the violence in the Darfur region of Sudan. Section III will examine cases in which a major response to atrocities was truth commissions, at times combined with trials and compensation programs. Special cases include South Africa, Argentina, and post-Communist Eastern Europe. Section IV addresses the consequences of interventions and memories for ending cycles of violence.

**Style:** 65% Lecture, 10% Film/Video, 20% Discussion, 5% Small Group Activities.

**Grading:** 50% mid exam, 30% final exam, 10% written homework, 10% class participation.

**SOCI 4305 Society and the Environment: A Growing Conflict**

**A-F only, 3 credit(s); prereq 1001 or environmental course recommended; soc majors/minors must register A-F; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme;**

**Instructor:** Broadbent, Jeffrey Praed

**Description:** Human society and the natural environment have always affected each other, but with the growth of population, technology and prosperity, the human effect has magnified greatly. These days, our impact is changing the entire ecological system of the planet with potentially disastrous affects for all living creatures. Global warming, as well as species extinction and the decline of coral reefs and rainforests exemplify these trends. To reduce these problems, humans need to rapidly learn new ways to build satisfying and just societies on a very low energy budget, with most of that energy coming from non-fossil fuel sources. Environmental sociology studies the social causes for our worsening relation with the environment and also how we can improve this situation. The class will cover readings on the ideas of environmental sociology with examples of their use to analyze the causes of environmental problems and their solutions as well. Along with lectures, students will do exercises designed to give you new ways of seeing environmental problems, and also write short essays on selected issues. We will have some pop quizzes and two essay exams.

**Style:** 60% Lecture, 40% Discussion.

**Grading:** 25% mid exam, 25% final exam, 24% special projects, 5% quizzes, 21% written homework.

**Exam Format:** essay

**SOCI 4321 Globalize This! Understanding Globalization through Sociology**

**A-F only, 3 credit(s); prereq 1001 or environmental course recommended; soc majors/minors must register A-F; Credit will not be granted if credit has been received for: GLOS 4221; Meets CLE req of International Perspectives Theme;**

**Instructor:** Goldman, Michael R

**Description:** From the factories of Shanghai to the high plateaus of Bolivia to the trading floors of New York City, people from around the world are becoming increasingly interdependent. This course offers an overview of the processes that are forcing and encouraging people’s lives to intertwine economically, politically, and culturally. We will start with the most basic questions: What is this called “globalization”? Is it at all new? What are the forces behind it? Second, we will explore the idea that this era of globalization is marked by dramatic transformations in the ways we work, do politics, play, and communicate. Moreover, we will look into the ideas that capitalism has changed significantly, that the vision between rich and poor has intensified, and that the sovereignty of governments and the basic rights of people are being challenged. We will learn about a few key actors, such as the World Bank and the World Trade Organization, and understand their main objectives and effects. We will discuss the world of immigration, of fast-moving finance capital and Hollywood/Bollywood cultural production, and the slower moving domains of everyday life, as they are experienced in Jamaica, the U.S., Mexico, India, Bolivia, Argentina, and South Africa. Along the way, we will look at globalization from below, or social movements working to bring about social change (within and across national boundaries) by contesting the worst effects of economic, political, and cultural globalization. In all, this course will use a number of texts, films, lecture, discussion, and student debates, to help us become fluent in the different scholarly concerns on globalization and its many social forces, connections, and imaginations.

**SOCI 4451 Sport and Society**

**3 credit(s); prereq 1001 or instr consent; soc majors/minors must register A-F;**

**Instructor:** Hartmann, Douglas

**Description:** This course is intended to stimulate critical, sociological thinking about sport?how it is socially organized, what role (or roles) it plays in society, and what sporting practices tell us about contemporary social life more generally. It begins from and is grounded in the notion that sport is one of the most powerful, paradoxical, and poorly understood institutions in the modern world. The first unit of the course provides a theoretical framework and broad historical context for making social sense of these paradoxes and of the phenomenon of sport itself. The second unit then explores what it is like to play? and various sports, the determinants of participation and success, and the general impacts of such involvement. These ideas are illustrated throughout the course using examples from intercollegiate athletics and the dynamics of race and sport in contemporary American society. Two main themes structure the second half of the course. The first is the culture and political economy of elite-entertainment sport: the second involves issues of globalization and cross-cultural exchange focusing on Olympic sport in China. Together, all of these units are intended to capture the basic structure, function, and broad social significance of a cultural form that is too often naïvely celebrated, trivialized, or simply dismissed by both scholarly and public audiences alike.

**Style:** 50% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities, 10% Guest Speakers.

**Grading:** 25% mid exam, 25% final exam, 15% reports/papers, 20% special projects, 5% quizzes, 10% class participation.

**SOCI 4966W Major-Project Seminar**

**A-F only, 4 credit(s); prereq 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consent; Meets CLE req of Writing Intensive;**

**Instructor:** Mortimer, Jeylan T

**Description:** The purpose of this course is to assist and encourage students in fulfilling CLA’s senior project requirement, the ‘capstone’ of the undergraduate career. Enrollment is limited to student majors in Sociology. The class provides a structure and guided format for completing the senior project. Through a series of assignments, students work through the choice of their topics, the formulation of a researchable question, selection of methods and data, written and oral presentation of findings, and drawing conclusions. In addition to the final senior paper, there are five written assignments: (1) topic; (2) questions and methods; (3) first draft of literature review and methods section; (4) first draft of entire paper, including findings and conclusions); and written comments on one other student’s draft paper and oral presentation. Class discussions focus on the stages of a research/writing project, the ethics of research on human subjects, challenges of writing, and the various issues and problems that the students in the class encounter as their work progresses. Readings provide guidelines about how to ask sociological questions, collect and interpret data, and clearly communicate research findings. Since the course centers on students’ projects, there is very little lecture.

**Style:** 25% Lecture, 70% Discussion, 10% Small Group Activities, 10% Writing Intensive; 10% Small Group Activities. Students present their papers in class.

**Grading:** 70% reports/papers, 5% in-class presentation, 25% class participation.

**Exam Format:** no exam

**SOCI 4966W Major-Project Seminar**

**A-F only, 4 credit(s); prereq 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consent; Meets CLE req of Writing Intensive;**

**Instructor:** Aminzadeh, 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. The focus will be on how those outside the academy (e.g., journalists, judges, lawmakers, probation officers, etc.) have used, ignored, or misused sociological knowledge. Instead of traditional research projects, students will be encouraged to conduct projects that are more engaged and applied in nature. Specifically, students will be required to do community service learning and to write either a field research paper or an action project paper based on their work with participating community organizations. The final project will build on the values of critical thinking, effective communication, diversity, and social responsibility that are cultivated in sociology.

**Style:** 33% Lecture, 33% Discussion. paper development and one on one meetings with instructors

**Grading:** 60% reports/papers, 20% class participation, 20% other evaluation. paper proposals, outlines and drafts

---

**SOC 4966W Major-Project Seminar**

A-F only, 4 credit(s); prerequisite 1001, 3701, 3801, 3111, 12 cr upper div sociology, dept consent; Meets CLE req of Writing Intensive;

**Instructor:** Savelsberg, Joachim J

**Description:** The Major Project Seminar guides students through the process of researching and writing their Senior Thesis on a topic of their choice. Segments address: (1) thinking about biography and research interests, (2) the identification of a research question and writing a topic statement, (3) literature search and the writing of a literature review, (4) the identification of an appropriate research method, development of a research instrument, and the writing of a research methods and data statement, (5) the consideration of human subjects concerns, (6) data collection and analysis and the writing of a results section, and finally (7) writing a discussion and conclusions section and (8) creating a complete senior thesis from all of the previously written parts. The instructor will guide you through this research process and give you feedback on the different sections you will write. There will be plentiful opportunity for exchanges with fellow students and for presenting your research to the class.

**Style:** 35% Lecture, 15% Discussion, 30% Small Group Activities, 20% Student Presentation.

**Grading:** 80% reports/papers, 10% in-class presentation, 10% class participation.

---

**SOC 4978W Senior Honors Proseminar II**

A-F only, 3 credit(s); prerequisite 4977V or inst consnt, 3701, 3801, 3111, at least 9 additional upper div soc cr, or soc honors major, dept consent; Meets CLE req of Writing Intensive;

**Instructor:** Boyle, Elizabeth Heger

**Description:** This is the second course in a two-semester sequence designed to help honors students majoring in sociology prepare their senior projects research papers. Last semester, we reviewed key issues in the design of social research. This semester, we will focus on data analysis, writing, and the presentation of results.

**Style:** 25% Lecture, 25% Discussion, 50% Laboratory.

**Grading:** 75% reports/papers, 25% in-class presentation.

---

**SOC 8001 Sociology as a Profession**

S-N only, 1 credit(s), max credits 2; prerequisite Grad soc major; prerequisite; Meets CLE req of Writing Intensive;

**Instructor:** Warren, John R

**Description:** Students must 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 completions allowed; prerequisite Inst consnt;

**Instructor:** Hartmann, Douglas

**Description:** Students in the course will serve as the graduate student board and substantive contributors to Contexts, the American Sociological Association journal currently housed in Minnesota. Instructor permission, based on a detailed application, is required to register for the course. In addition to experience and qualifications, the board will be selected so as to involve students from different stages in the program, substantive interest areas, and methodological specialties. Though there will be some overlap from year to year, participants in the course will rotate on an annual basis. The seminar is designed as a year-long 3-credit course (with 1.5 academic credits awarded for fall and 1.5 credits in spring) with the possibility of honorary stipends for the summer months.

**Style:** 10% Lecture, 40% Discussion, 10% Small Group Activities, 25% Student Presentation, 5% Field Trips, 10% Web Based. Outreach activities, social events, and release parties are sometimes held outside class time.

---

**SOC 8221 Sociology of Gender**

3 credit(s);

**Instructor:** Moen, Phyllis E

**Description:** Why is gender such a source of enduring difference and inequality? How is the salience of gender changing? Is gender declining in significance? This class examines gender from a sociological perspective: as a socially constructed, institutionalized basis for allocation of roles/resources and disparities, as well as identities, expectations, strategic adaptations, and interpersonal relationships. Gender intersects with other social locational markers, such as race/ethnicity, social class, sexuality, life stage, and citizenship. It links with age, biology, and family on the one hand, and organizations, social policy, and social change, on the other. We will discuss feminist theories and methodologies as well as insights garnered from recent research on the sociology of gender.

---

**SOC 8390 Topics in Political Sociology: Race, Nation & Citizenship in a Global Perspective**

3 credit(s), max credits 12, 4 completions allowed; prerequisite Soc grad student or inst consnt;

**Instructor:** Aminzade, Ron R

**Description:** The course explores current social science debates about nationalism, citizenship, and race and empirical research generated by these debates. The central goal is to develop an understanding of theoretical debates around these issues and a capacity to link these debates to concrete case studies. During the first five weeks, we will study nationalism as a form of politics, a discourse of cultural understanding, and a source of identity and group loyalty. We will explore the relationship between nationalism and modernity, state formation and nationalism, the role of various solidarities and divisions (e.g., race, ethnicity, gender, sexuality) in nationalism, colonialism and the world system of nation-states, and alternative possible futures of nationalism. The next section of the course will explore liberal, communitarian, and radical theories of citizenship and the relationship between citizenship, the nation-state, and globalization. We will address debates concerning the relationship between capitalism, democracy, and citizenship, contemporary reconfigurations of citizenship, and minority rights and citizenship. The final section will focus on the politics of race and nation in different parts of the globe, including Africa, Brazil, the U.S., and Europe. Although the topics and readings reflect my own interests and expertise, and thus draw heavily on materials from Africa and Europe, you will be encouraged to apply key concepts and theories to your own area of interest and to think about how the issues raised in the seminar relate to historical and social science research that has been done in a particular nation-state that you wish to study.

---

**SOC 8390 Topics in Political Sociology: Immigration, Citizenship, Border**

3 credit(s), max credits 12, 4 completions allowed; prerequisite Soc grad student or inst consnt;

**Instructor:** Park, Lisa Sun-Hee

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

---

**SOC 8551 Social Structure and the Life Course**

3 credit(s); prerequisite Soc grad major or inst consnt;

**Instructor:** Mortimer, Jeayla 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 Intrasocietal, SES, Race/Ethnicity) Institutional Structuring of the Life Course The Deconstruction 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: Kelly, Erin L
Description: The Soc 8801 course provides an overview of the methods used in sociology, with attention to the kinds of questions that are asked, the types of evidence and arguments that are made, and the standards of excellence that are held in different sub-fields and methodological traditions. We will discuss qualitative and quantitative methods, inductive and deductive strategies, descriptive and explanatory goals, causal analysis and process analysis, but we will also try to question these dichotomies. In this course, you will: 1) learn the basics of how research is conducted using different sociological methods, 2) develop some sophistication about the knowledge claims and the standards of evidence in different scholarly communities, 3) increase your familiarity and comfort with scholarly literature that utilizes different methods, 4) consider how your substantive interests could turn into fruitful empirical projects, by preparing a proposal for future research. Style: 10% Lecture, 75% Discussion, 15% Student Presentation.

SOC 8811 Advanced Social Statistics
A-F only, 4 credit(s); prereq 5811 or equiv, grad soc major or instr consent;
Instructor: Grodsky, Eric S
Description: Student may contact the instructor or department for information.

SOC 8822 Research Practicum II
A-F only, 1.5 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: Historical Sociology
3 credit(s), max credits 12, 3 completions allowed; prereq Grad soc major, 8801, 8811 or instr consent;
Instructor: Gerteis, Joseph Howard
Description: This methods seminar provides an introduction to historical sociology. There is no single perspective and method that can be called "historical sociology" but despite the many differences in the kinds of work we do, there is substantial consensus that the field involves understanding structure and action as mutually implicated, and seeing this connection in social processes that unfold over time. This course will cover three broad areas. First, we will engage with the big theoretical issues of method. What are the aims of historical social science? How do we define what constitutes a "case" in our research? How do we conceive of important moments, events, or discourses as embedded within a history? Second, we will cover different ways in which historical social scientists have engaged with archival data. These include more qualitative, cultural and interpretive approaches as well as more quantitative and relational methods. Third, we will begin to work out our own unique approaches through direct engagement with historical data. This will involve both seeing the many different kinds of historical data that are available (in formal archives as well as in everyday life) and working with them directly. Style: 20% Lecture, 40% Discussion, 20% Laboratory, 20% Guest Speakers. Grading: 40% reports/papers, 30% special projects, 30% class participation.

SOC 8890 Advanced Topics in Research Methods: Statistical Multilevel Models
2 credit(s), max credits 12, 3 completions allowed; prereq Grad soc major, 8801, 8811 or instr consent;
Instructor: Grodsky, Eric S
Description: Student may contact the instructor or department for information.

SOC 8890 Advanced Topics in Research Methods: Statistical Models for Categorical Data
2 credit(s), max credits 12, 3 completions allowed; prereq Grad soc major, 8801, 8811 or instr consent;
Instructor: Grodsky, Eric S
Description: This course introduces students to techniques for analyzing limited dependent variables including nominal, ordinal and count outcomes. The course covers the linear probability model, binomial and multinominal logit and probit models, ordered logit and probit models, poisson and negative biomial models and introduces hazard models. Solid understanding of least squares regression strongly recommended.

Software Engineering
6-202 EE/CSci

SENG 5115 Graphical User Interface Design, Evaluation, and Implementation
A-F only, 3 credit(s); prereq Grad SEng major;
Instructor: Konstan, Joseph Andrew
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 completion 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: Simonson, Leann Michelle
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 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.
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 completion 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 completion allowed;
prereq Grad SEng major;
Instructor: Larson,Amy Caroline
Description: Student may contact the instructor or department for information.

SENG 5841 Model-based Development
A-F only, 3 credit(s); prereq Grad SEng major;
Instructor: Heimdahl,Mats
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,Dick
Description: Student may contact the instructor or department for information.

SENG 5900 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Collins,John
Description: Student may contact the instructor or department for information.

SENG 8494 Capstone Project (Plan B Project)
S-N only, 3 credit(s); prereq SEng major;
Instructor: Collins,John
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Hedger,Dick
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Carlis,John Vincent
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Kruse,John Michael
Description: Student may contact the instructor or department for information.

SENG 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Collins,John
Description: Student may contact the instructor or department for information.

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: Lamb, John A
Description: Student may contact the instructor or department for information.

SOIL 4093 Directed Study
1-7 credit(s), max credits 20, 20 completions allowed; prereq instr consent;
Instructor: STAFF
Description: Students who want to explore a special topic of their interest should visit with a faculty member who will direct their exploration. Report length dependent on the credits.

Style: Independent research

SOIL 4094 Directed Research
1-7 credit(s), max credits 7, 1 completion allowed; prereq instr consent;
Instructor: STAFF
Description: Students who want to do research in a special area should determine a faculty member who will guide their research activities. Research depth depends on the credits.

Style: Independent study

SOIL 4111 Introduction to Precision Agriculture
A-F only, 3 credit(s); prereq Basic sciences, statistics, soil, agronomy;
Instructor: Mulla, D J
Description: Student may contact the instructor or department for information.

SOIL 4505 Soil Geography: Soil Variability on Planet Earth
2 credit(s); prereq 1125 or 2125 or equiv;
Instructor: Cooper, Terence H
Description: Student may contact the instructor or department for information.

SOIL 5111 Practicum Internship in Precision Agriculture
S-N only, 2-5 credit(s), max credits 5, 1 completion allowed;
Instructor: Mulla, D J
Description: Student may contact the instructor or department for information.

SOIL 5311 Soil Chemistry and Mineralogy
3 credit(s); prereq [Chem 1022 or equiv], Phys 1102, grad or instr consent;
Instructor: Toner, Brandy Marie

Style: We will meet MW 4:00-5:30pm

SOIL 5480 Special Topics in Land and Atmospheric Science
1-4 credit(s), max credits 6, 6 completions allowed; prereq Sr or grad student;
Instructor: Millet, Dylan Baird
Description: Student may contact the instructor or department for information.

SOIL 5515 Soil Genesis and Landscape Relations
A-F only, 3 credit(s); prereq 2125 or instr consent;
Instructor: Nater, Ed
Description: Soil 5515 is an advanced undergraduate/graduate level course covering concepts of soil genesis and development, soil classification, and the distribution of soils across the landscape. The first part of the course uses conceptual and mathematical models to describe the processes and environmental factors affecting the development of soils, their horizons, and their properties. Particular emphasis is placed on development over time; paleosols are used to illustrate some of these points. The second part of the course consists of a brief introduction to the U.S. Soil Taxonomic System. Characteristic properties of individual soil orders are used to further illustrate soil development processes and the geographic distribution of soils. The final portion consists of an advanced treatment of soil--landscape relations and the processes and factors that lead to the distributions observed. This section utilizes GIS and soil landscape modeling to develop these concepts. An introduction to national soils databases and interpretations will be provided. Soil surveys are introduced, both from the viewpoint of making soil maps and their use and interpretation. Three weekend field trips are required: the first is a one-day trip to Cedar Creek Natural History Area; the second is a one-day trip to southeastern Mn.; and the third is a two-day trip through north central and northwestern Mn.

Style: 80% Lecture. Field trips
Grading: 20% mid exam, 20% final exam, 30% reports/papers, 30% special projects.

Exam Format: Essay

SOIL 8110 Colloquium in Soil Science
S-N only, 1-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Toner, Brandy Marie
Description: Student may contact the instructor or department for information.

SOIL 8123 Research Ethics in the Plant and Environmental Sciences
S-N only, 0.5 credit(s); prereq Enrolled in a plant/environmental sci grad research prog; Credit will not be granted if credit has been received for: APSC 8123;
Instructor: Anderson, James Allan
Description: Student may contact the instructor or department for information.

SOIL 8128 Seminar in Soils
S-N only, 1 credit(s), max credits 6;
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 completions 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 [5232, differential equations] or instr consent;
Instructor: Gupta, Satish C
Description: Student may contact the instructor or department for information.

SOIL 8550 Teaching Experience
S-N only, 0.5 credit(s); 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.

Spanish

SPAN 144 Intermediate Medical Spanish
S-N only, 0 credit(s); prereq [1st yr college-level Spanish or equiv], dept consent;

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
**Description:** This course is designed to help health care professionals communicate with patients who speak Spanish. Following the course, the student will be able to: use basic medical vocabulary in Spanish; ask questions and provide answers in common medical situations in Spanish; conduct patient interviews, medical histories, and physical exams in Spanish; and understand cultural factors impacting health and health care for Chicano/Latino patients. This course is partially internet delivered.

**Style:** In class: Active participation; and Individual work: Variety of assignments and group discussion on WebCT.

**SPAN 344 Advanced Medical Spanish**

S-N only, 0 credit(s); prereq Span 0144, 2 yrs. Spanish College Level or equiv, dept consent ;

**Instructor:** Lopez, Maria Emilece

**Description:** This is an advanced course designed to help health care professionals communicate with patients who speak Spanish. This course will further develop and strengthen language skills and cultural awareness. Individual work is done on WebCT and CD-ROM. Activities focus on vocabulary, listening, reading, writing, and exploring cultural issues. This course is partially internet delivered.

**Style:** In class: Active participation; and Individual work: Variety of assignments and group discussion on WebCT.

**SPAN 1001 Beginning Spanish**

5 credit(s); prereq Less than 2 yrs of high school Spanish, dept consent ; no college-level Spanish;

**Instructor:** STAFF

**Description:** This course is strictly for students who have less than two years of high school Spanish. Permission numbers are required in order to register for this course. Students should bring their high school transcripts and an ID card to Folwell Hall 34 to obtain a number. Spanish 1001 focuses on the development of communication skills in listening, speaking, reading, and writing. One day a week students will watch “Destinos”, an educational television program in Spanish. The text, “¿Sabías que...?” 3rd ed., is accompanied by a workbook and audio tapes or CDs that are designed to be studied outside class. In this text students will cover material from the “Lección Preliminar” through and including “Lección 9”. Grammar is covered in the homework assignments and reinforced in class with a variety of paired and small group activities. Spanish is spoken almost exclusively in class. Since the majority of class time is devoted to speaking and listening, class attendance is critical.

**Style:** 5% Lecture, 10% Discussion. 1% Laboratory. Group work, reading and related activities

**Grading:** 20% final exam, 15% quizzes, 10% class participation, 55% other evaluation. 15% oral interview type evaluations, 10% written compositions and writing activities, 10% listening and workbook exercises

**Exam Format:** All quizzes and tests evaluate listening, reading, vocabulary, grammar and writing. A minimum of multiple choice & true-false items; an effort is made to encourage the use of natural language by using short answers and essays. Two oral interviews.

**SPAN 1002 Beginning Spanish**

5 credit(s); prereq 1001 completed at UMNTC, dept consent ; Credit will not be granted if credit has been received for:

**Instructor:** Morales, Flavio Antonio

**Description:** After completing Spanish 1002, you will be able to understand Spanish if spoken at a beginning pace and apply skills and strategies to fill in gaps in order to comprehend the idea of what is said; describe orally people and places, narrate present events, and, to some extent, narrate past events; read several simple, culturally relevant Spanish texts and profit from some reading materials written for native speakers; and write short, controlled narrations in the present tense. Finally, you will gain a wealth of nearly first-hand knowledge about some of the cultures of the Spanish-speaking world.

**Style:** This is a printed correspondence section.

**Grading:** 35% mid exam, 35% final exam, 20% quizzes. Worksheets (5 percent) Two compositions (5 percent)

**SPAN 1003 Intermediate Spanish**

5 credit(s); prereq [1002 or 1022] or EPT placement;

**Instructor:** STAFF

**Description:** This course is for those who have completed Spanish 1002 or 1022 with C- or better, or who have taken two or more years of Spanish in high school and have successfully passed the Entrance Proficiency Test (EPT) for this level. In this course, students build on the communicative speaking, writing, listening and reading skills that were acquired in beginning Spanish. The “Conexiones” series, text, lab manual and workbook, are used in class. Class activities are carried out almost entirely in Spanish. For the most part, grammar should be studied at home; a small percentage of class time is intended for grammar instruction and practice. Reading skills are developed through “Conexiones” and writing skills are developed through a variety of writing assignments. Each student will present an oral presentation on a topic related to those covered in “Conexiones” or in class. Because Spanish class is about the only place where a student can practice listening and speaking, class attendance is critical.

**Style:** 40% Discussion. communicative activities with language

**Grading:** 30% mid exam, 20% final exam, 15% reports/papers, 10% in-class presentation, 10% class participation, 5%
laboratory evaluation, 10% other evaluation. Oral interview

Exam Format: Diverse - essay - fill in blank - short answer

SPAN 1004 Intermediate Spanish
5 credit(s); prereq 1003 or EPT placement; Credit will not be granted if credit has been received for: SPAN 1014;
Instructor: STAFF
Description: This course is for those who have successfully passed Spanish 1003 with a C- or have passed the Entrance Proficiency Test (EPT) for this level. This course is a requirement for Spanish 3015. In this course, you will build on the communicative speaking, writing, listening and reading skills that you acquired during the first three semesters of Spanish. The "Conexiones" series, text, lab manual and workbook, are used in class. Class activities are carried out almost entirely in Spanish. For the most part, grammar should be studied at home; a small percentage of class time is intended for grammar instruction and practice. Reading skills are developed through "Conexiones", and writing skills are developed through process writing, a multi-step writing process which entails composition writing, rewrites, journals, pop-quizzes, etc. You will also prepare and present a debate with other classmates. Because Spanish class is about the only place where you can practice listening and speaking, class attendance is critical. All students in a BA, BFA of BS degree program in the CLA must take the Graduation Proficiency Test (GPT) as a requirement of the course, unless they have already passed the GPT in this or another language.
Style: 10% Lecture. 60 - 70% discussion; 20 - 30% listening, writing, testing for comprehension and vocabulary, and peer editing.
Grading: 50% quizzes, 10% class participation, 5% laboratory evaluation. 15% written composition; 10% round-table discussion; 10% debate
Exam Format: Exams evaluate listening, reading, vocabulary & grammar, writing & culture. A minimum of multiple choice and true/false items; encourage the use of natural language by using short answers, short/long essays. 1 debate

SPAN 1004 Intermediate Spanish
5 credit(s); prereq 1003 or EPT placement; Credit will not be granted if credit has been received for: SPAN 1014;
Instructor: Morales, Flavio Antonio
Description: After the completion of Spanish 1004, you will be able to: --understand Spanish if spoken at a slower than normal pace, as well as have skills and strategies for filling in some gaps when comprehension is not perfect; --read two- to three-page Spanish texts without major comprehension problems and also be able to profit from reading materials written for native speakers; --write compositions in the present tense and the past; and --express your opinion on topics presented throughout the course, as well as learn different communication strategies to become a more effective communicator. Finally, you will expand your knowledge about some cultural aspects of the Spanish-speaking world.
Style: This is a printed correspondence section.
Grading: 30% mid exam, 20% final exam, 25% quizzes. Worksheets = 5%. Two compositions = 20%
Exam Format: --One supervised, in person (not online) midterm exam --One final exam that must be taken on campus only and limited to specific dates during the academic year

SPAN 1022 Alternate Second-Semester Spanish
5 credit(s); prereq Placement above 1001; Credit will not be granted if credit has been received for: SPAN 4002;
Instructor: STAFF
Description: This class is a first year Spanish course developed for students with previous language experience. The instruction and context are provided by a combination of in class meetings and a wide range of online activities. The different online components were designed to help you become a more successful language learner by giving you the opportunity to explore different learning modes independently and to provide more exposure to the Spanish language. You will have the opportunity to experience different accents and regional variations, not only in the instructor's, as well as a wealth of other authentic materials that would not be readily accessible in a regular classroom. For that reason the course requires a considerable amount of independent work to be completed online outside of the classroom contact hours. The regular class typically meets four days a week and the Technology-enhanced sections typically meet three days a week. All sections meet every day the first week of instruction NOTE: Students are not to schedule other classes or work on the days that the classes do not meet because some weeks classes will meet all five days and the instructors expect those 50-minute sections to be available for Spanish on short notice. The web activities are to be done outside of the classroom.
Style: 5% Lecture, 10% Discussion, 10% Laboratory, group work, reading and related activities
Grading: 20% final exam, 10% class participation, 10% laboratory evaluation, 25% other evaluation. Unit exams, 15% oral interview type evaluations, 10% written compositions and journals, 10% listening and workbook exercises
Exam Format: All quizzes and tests evaluate listening, reading, vocabulary, grammar & writing. A minimum of multiple choice & true/false items; encourage the use of natural language by using short answers and essays. Two oral interviews.

SPAN 1044 Intermediate Medical Spanish
5 credit(s); prereq 1003 or equiv; Credit will not be granted if credit has been received for: SPAN 1004;
Instructor: STAFF
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 as 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 Chichano/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 3015 Spanish Composition and Communication
4 credit(s); prereq [1004 or 1014 or 1044], LPE pass;
Instructor: STAFF
Description: Spanish 3015 is the first of the upper division sequence for Spanish majors and minors. To enroll in this class, a student must have successfully completed Spanish 1004 or Spanish 1014 or Spanish 1044 and a "High Pass" on the LPE is highly recommended. Students who have not taken Spanish 1004 (or equiv.) at the University of Minnesota must achieve a "high pass" on the LPE to enroll in Spanish 3015. This class is designed to further develop and strengthen the language skills acquired in the foundation courses. Rather than separate the internal disciplines inherent in second language study, this course seeks to integrate in a meaningful and "real world"
Fashion the student's ability to write, speak, read and understand modern Spanish at a level that is expected of majors and minors. Students will generate a series of creative and original compositions and will read a variety of texts from both Spain and Latin America. The class will employ diverse learning techniques -- grammar review, audio tape exercises, paired work, small group work, all-class discussions, oral presentations, peer editing, process writing -- to provide students with the appropriate opportunities to enhance their language skills as they learn academic content through the active use of the Spanish language. This course requires a major time commitment on the part of each student registered. Style: 25% Lecture, 50% Discussion, 15% peer editing, 10% preparing and presenting projects Grading: 15% class participation, 5% participation in peer editing groups, 10% compositions and portfolio, 20% examinations, 10% reader's journal, 10% round-table discussion, 10% final research paper Exam Format: Essays and short answers written in Spanish, together with grammar sections.

SPAN 3021 Advanced Communication Skills
4 credit(s); prereq 3015 credit will not be granted if credit received for: Tldo 3021;
Instructor: STAFF
Description: Spanish 3021 is the second of the upper division sequence for majors or minors. Students who received an A or B in Spanish 3015 under the semester system and feel linguistically prepared, have the option to advance to the 31xx series in lieu of 3021; however, they may substitute it later for an elective course. While this class is designed to further develop and strengthen the language skills, it seeks to integrate in a meaningful and "real world" fashion the student's ability to write, speak, read and understand modern Spanish at a level that is expected of majors and minors. Students will write summaries of lectures given by native speakers, two papers and reader's journals. They will give an oral presentation and read a variety of texts. The class will employ diverse learning techniques -- grammar review, audio tape exercises, paired work, small group work, all-class discussions, peer editing, and process writing -- to provide students with the appropriate opportunities to enhance their language skills as they learn academic content through the active use of the Spanish language. This course requires a major time commitment on the part of each student registered. Style: 25% Lecture, 50% Discussion, 15% peer editing, 10% preparing and presenting projects Grading: 20% mid exam, 20% quizzes, 10% in-class presentation, 10% class participation, 10% compositions and portfolio, 10% paper, 10% reader's journal, 25% final paper Exam Format: Essays and short answers written in Spanish, together with grammar sections.

SPAN 3022 Advanced Business Spanish
4 credit(s); prereq [[1014 or 1004 or 1044 or equiv] LPE in Spanish] or instr consent credit will not be granted if credit received for: Tldo 3022, 3023;
Instructor: Morales, Flavio Antonio
Description: SPAN 3022: ADVANCED BUSINESS SPANISH Understand the critical cultural considerations of doing business in Latin America. Advanced Business Spanish aims to explore the cultural history, ethnicity, women's participation, government involvement, and legal philosophies consistent with business practices in the Hispanic worlds. The influences of globalization and the role that neo liberalism and social democracy play in business decisions will be the main topic to be discussed. Other areas: NGOs, advertisements, etc. Consideration will be given to students' interests. Active participation is encouraged. The course packet and exams will focus on actual business articles found on major e-newspapers and websites. A resume and an ideal cover letter will be designed by each student towards applying for a job placement in the Hispanic world. Students will do brief formal writing assignments with the goal of practicing language and grammar use, in addition to two compositions. There will be two exams based on the required readings. We will also watch two films that pertain with the social and business society representing life in Cuba. There will be a midterm power point 'sales pitch' project and a final presentation based on class work ideas. Span 3022 is equivalent to Span 3015 and Span 3021.

SPAN 3044 Advanced Medical Spanish
4 credit(s); prereq [[1004 or 1014 or 1044 or equiv], LPE in Spanish] or instr consent;
Instructor: Lopez, Maria Emilece
Description: This course is designed to further develop and strengthen the linguistic skills and cultural awareness students have been exposed to and acquired in Intermediate Medical Spanish 1044 (Span1044). This higher language and culture level course, is designed to train health care professionals and/or Spanish Studies majors/ minors to communicate more effectively in linguistic and cultural terms with Spanish speaking patients. Students will explore more advanced and specific medical vocabulary, communication strategies and related cultural aspects. The goal is targeted to: improve conducting patient interviews and medical history, using vocabulary and conversation to conduct physical exams; and to better understand Latin American views on health and health care. The course applies a variety of communicative tasks to address learning skills, uses technology, and promotes discussion. Students are to read course related articles and perform assignments on Web-CT about CD-ROM segments outside of class. Web-CT activities focus on vocabulary, listening, reading, writing, and discussion. CD-ROM features videotaped interviews of a significant number of health care providers who work with the Spanish speaking immigrant community and the unique opportunity to get perspectives on health related issues from Chicanos/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. Grading: 20% class participation, 15% other evaluation, compositions and portfolio, 5% participation in peer editing groups; 20% examinations; 10% web-CT activities and homework; 10% final research paper Exam Format: Essays and short answers written in Spanish, together with grammar sections. Exams evaluate listening, reading, vocabulary & grammar, writing & culture. A minimum of multiple choice and true/false items.

SPAN 3104W Introduction to the Study of Hispanic Literatures
A-F only, 3 credit(s); prereq [3015 with grade of at least B-] or successful completion of 3021; Credit will not be granted if credit has been received for: TLDQ 3104; Meets CLE req of Literature Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: This course aims to introduce students to basic concepts of literary criticism and analysis through reading, discussing and writing about a variety of texts in Spanish. These will broadly represent a range of genres, periods, and styles. As this a writing-intensive course, it will include regular practice of composition and revision of written Spanish as a means of interpreting and responding to literary texts.

SPAN 3105W Introduction to the Study of Hispanic Cultures
3 credit(s); prereq [3015 with grade of at least B-] or 3021; Credit will not be granted if credit has been received for: TLDQ 3105; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

SPAN 3107W Introduction to the Study of Hispanic Linguistics
3 credit(s); prereq [3015 with grade of at least B-] or 3021; Credit will not be granted if credit has been received for: TLDQ 3107; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

SPAN 3212 Discourses of Modern and Contemporary Spain,
1800-Present
3 credit(s); prereq 3104;
Instructor: STAFF
Description: Al margen de su calidad intrínseca probada, la
SPAN 3401 Latino Immigration and Community Service
3 credit(s); prereq 3015 with grade of at least B-; LPE high pass; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Cultural Diversity Theme; Instructor: Marrero-Fente, Raul A
Description: The purpose of this course is to organize a discussion around the issues of nation building and modernization in Latin America through the study of representative 19th-century authors. The selected materials are essential documents of their times, and often influential statements about the history, identity, and culture of the region. Through a close examination of essays, novels, short stories, poems, and other texts, students are able to appreciate their cultural legacy and to understand the socio-historical context and the intellectual forces that shaped Latin America.
Grading: 20% final exam, 15% in-class presentation, 15% class participation. Ensayo # 1/# 2, 15% @; Examen I, 20%

SPAN 3404 Medical Spanish and Community Health Service
3 credit(s); prereq 3015 with grade of at least B- or [1044, high pass on at least three sections of LPE]; Instructor: Lopez, Maria Emilee
Description: Description: Medical Spanish and Community Health Service, an advanced language and culture course, is designed to train Spanish Studies majors/minors to create materials for effective communication with and education of Spanish-speaking patients. In addition, Span 3404 has a service-learning component in which students apply academic knowledge to work done with community health care partners that serve the Chicano/Latino population. It should be noted, however, that students in Span 3404 will but not be involved in direct patient health care.
Style: 40% Discussion. student centered culture and special purpose language activities.
Grading: 50% other evaluation. Written reports and journals, online writing activities based on CD-ROM interviews, and development of brochure; 20% class participation and other class assignments such as discussion of readings and unit vocabulary quizzes, 30%

SPAN 3502 Modern Spain
3 credit(s); prereq 3105; Instructor: Villar, Susan McMullen
Description: 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 such topics 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.

SPAN 3510 Issues in Hispanic Cultures
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq 3105W credit will not be granted if credit received for: Tldo 3301, 3302, 3311, 3312, 3313, 3314, 3514, 3521, 3516, 3513, 3515, 3517; Instructor: STAFF
Description: This course will explore how specific works of the 20th century Spanish theater and film, as cultural and aesthetic expressions, provide an account of relevant issues in Spanish culture such as the production of ruins in urban space, violence, torture, immigration, war, memory, and euthanasia. We will study plays by Alfonso Sastre, Antonio Bueno Vallejo, Josep Maria Benet I Jornet, Sergi Belbel, Lluisa Cunill, and films by Ventura Pons, Fernando Lecha, Alejandro Gonzalez, Ibon Hueto and Alejandro Amenabar, among others. Additional readings on Spanish history and culture will also be considered. The class will be conducted in Spanish.
Grading: 40% final exam, 30% reports/papers, 7% attendance, 15% in-class presentation, 8% class participation.

SPAN 3510 Issues in Hispanic Cultures: Art and Politics of Twentieth Century Spain
This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq 3105W credit will not be granted if credit received for: Tldo 3301, 3302, 3311, 3312, 3313, 3314, 3315, 3321, 3316, 3317, 3513, 3515, 3517

Description:
Art and Politics of Twentieth Century Spain. This course addresses the interconnection between politics and cultural life in Twentieth Century Spain. The course focuses on four historical periods: the monarchy and the instability that governed the first third of the century; the unexpected Second Republic that dissolved into civil war; Franco’s forty-year dictatorship; and the establishment of stable democracy through the transition that became a model for other nations around the world. The course identifies key cultural manifestations within each period as well as the impact that the political environment has had on creative work and the effect that creative work has had on politics. Emphasis is on painting and sculpture including the works of Picasso, Miro, Alberto, Saura, Equipo Cronica, and Chillida. The objective of the course is to stimulate critical thinking and provide students with an understanding of the relationship between culture and politics.

Style: 50% Lecture, 50% Discussion.

Grading: 50% reports/papers, 25% quizzes, 25% class participation.

Exam Format: Essay and short answer

SPAN 3512 Modern Latin America
A-F only, 3 credit(s); prereq 3105W;

Description:
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’ll 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 within 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. The course will use a variety of digital tools and materials.

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% final exam, 30% quizzes, 30% 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: Quizzes: identifications, short answer and essay. Final: essay

SPAN 3515 Contemporary Latino and Latin American Drama Written in English
3 credit(s); prereq 1001 or equiv; Meets CLE req of Cultural Diversity Theme;

Instructor: Ramos-Garcia, Luis A

Description:
A wide variety of Latino groups have used the stage to explore identity issues in a public forum and have developed non-traditional approaches which have altered the nature, quality and substance of recent theater in the United States. Off-Broadway, regional troupes, and groups such as the “Teatro Campesino”, “Gala Theater” (Latin American exiles in the U.S.), “Ollantay” (Cuban-American theatrical), “Avante”, “Su Teatro” (Mexican-American), and the “Puerto Rican Traveling Theater” (Nuyorican) have attempted to break the hegemony of the mainstream theater by addressing the audience’s desire to see their problems enacted in understandable and creative terms. The course will be of special interest for those students in search of a better understanding of the construction and deconstruction of Hispanic cultural and theatrical discourses within and outside of the U.S. Thus we will also explore how the size, ethnic and racial composition, and distribution of U. S. Hispanic groups have shaped the dynamics of its theatrical communities, for example, the degrees of cultural assimilation to the English mainstream canon. Students will be encouraged to reflect, to listen to another, to develop new learning strategies, and to formulate and try out some new ways of thinking about the content of the course being offered.

Grading: 10% in-class presentation, 15% class participation. 3 take-home exams, 25% each; Honor students; same as, plus students must write an additional paper in consultation with the instructor.

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:
This course is an introduction to the morphology and syntax of Spanish. The goal of the course is to improve written Spanish by developing the ability to analyze words and sentences. Consequently, much of the course work will be devoted to practice syntactical analysis of Spanish sentences taken from literary texts. Students will develop the ability to identify the different morphological and syntactic components of Spanish. They will also be able to manipulate morphosyntactic notions such as morpheme, noun, adjective, subject, direct object, adverbial clause. Text: Excerpts from various authors

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: Menke, Mandy R

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 completions allowed; prereq 3104W or 3105W;

Instructor: Ferran, Ofelia

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 completions allowed; prereq 3104;

Instructor: STAFF

Description: Spain’s Arabs El arabismo español (Topic Title, Spring 2010) This class will explore how the Muslim presence on the Iberian Peninsula from 711-1492 illicited a series of different responses from Iberian authors both during the period and since. Muslims are quite common as both authors and subjects in the literature produced in medieval Spain, and, given the large population of Muslims in contemporary Spain because of immigration from North Africa, this fact continues to inform Spanish culture and society. In this class we will read key texts from the Iberian Middle Ages, such as the Cantar de Mio Cid and the romances, in which Muslims play important roles in the contruction of a national ?Spanish? pat. We will also read works written by Muslims, such as poetry written by moriscos facing their expulsion from the Peninsula in 1492. In addition we will investigate how the representation of Muslims in these medieval works informed more contemporary representations in film and t.v. Thhroughout the class we will explore how Iberia, the ?area of the Mediterranean which underwent the most protracted encounter between Christianity and Islam,? complicates the notion of Orientalism popularized by Edward Said as a product of modern European colonization.

SPAN 3920 Topics in Spanish-American Literature
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq 3104;

Instructor: STAFF

Description: Written for: Tldo 3301, 3302, 3311, 3312, 3313, 3314, 3315, 3321, 3354, 3316, 3317

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Student may contact the instructor or department for information.

SPAN 3970 Directed Studies
1-4 credit(s); max credits 9, 3 completions allowed; prereq instr consent, dept consent, college consent credit will not be granted if credit has been received for: Tldo 3303, Tldo 3315, Tldo 3503, Tldo 3970, Tldo 3217; Instructor: STAFF
Description: Guided individual reading or study. Consult with the Undergraduate Advisor: Margaret Demmessie.

SPAN 3972V Honors: Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, honors, dept consent; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive; Instructor: Spadaccini,Nicholas
Description: Student may contact the instructor or department for information.

SPAN 3972V Honors: Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, honors, dept consent; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive; Instructor: Marrero-Fente,Raul A
Description: Student may contact the instructor or department for information.

SPAN 3972V Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, instr consent; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive; Instructor: Spadaccini,Nicholas
Description: Student may contact the instructor or department for information.

SPAN 3972V Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, instr consent; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive; Instructor: Hanneken,Jaime Elizabeth
Description: Student may contact the instructor or department for information.

SPAN 3972V Graduation Seminar
A-F only, 3 credit(s); prereq 31 cr of 3xxx, instr consent; Credit will not be granted if credit has been received for: SPAN 3972W; Meets CLE req of Writing Intensive; Instructor: Marrero-Fente,Raul A
Description: Student may contact the instructor or department for information.

SPAN 4004 Intermediate Spanish
2 credit(s); prereq Grad student; Instructor: Manzoni,Carla
Description: Student may contact the instructor or department for information.

SPAN 4022 Alternate Second-Semester Spanish
2 credit(s); prereq Grad student; Credit will not be granted if credit has been received for: SPAN 1002; Instructor: Leonard,Molly A
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 5528 Latin American Cultural Integration in the Neocolonial Order
3 credit(s); prereq Three 3xxx or 5xxx lit courses in Spanish or Portuguese or dept consent; Instructor: O'Connell,Joanna
Description: En este curso vamos a leer obras literarias hispanoamericanas de la primera mitad del siglo XX a partir de ideas sobre las tareas y los compromisos sociales que los intelectuales se otorgan en su relacion al "pueblo". Empezaremos con manifiestos que reivindican un papel clave para los intelectuales en la formacion de entidades nacionales y/o latinoamericanas. Luego examinaremos tres modos literarios de desarrollar estas visiones: una poesia de vanguardia que ofrece una vision renovada del lenguaje y de las relaciones sociales; la novela indigenista; la prosa y poesia feministas. Como este curso forma parte de la secuencia de cursos obligatorios para la maestria en literatura, los estudiantes deben terminar todas las obras en la lista de lecturas, y tomarlas como puntos de partida para una lectura mas amplia en la lista de reserva sobre temas y conceptos claves tales como populismo, vanguardia, indigenismo, feminismo, etc. Las presentaciones orales y los trabajos escritos se haran a base de estas lecturas, y la participacion oral activa sera un elemento en la evaluacion final. Libros en Williamson o SBS. Jose Enrique Rodo, "Ariel"; Jose Carlos Mariategui, "Siete ensayos de interpretacion de la realidad peruana"; Cesar Vallejo, "Poemas humanos"; Pablo Neruda, "Residencia en la tierra"; Gabriela Mistral, "Poesias completas"; Jorge Icaza, "Huasiungo"; Miguel Angel Asturias, "Hombres de maiz"; Maria Luisa Bombai, "La amortajada". Style: "Hombres de maiz"; Maria Luisa Bombai, "La amortajada". Grading: 75% reports/papers, 25% class participation.

SPAN 5718 Spanish Language Contact
3 credit(s); prereq Two 3xxx or 5xxx linguistics courses in Spanish or instr consent; Instructor: Klee,Carol Anne
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 5920 Topics in Spanish-American Studies: Noir novel in Spain and Latin America
3 credit(s), max credits 9, 3 completions allowed; prereq 3104 or dept consent;
Instructor: Ramos-Garcia,Luis A
Description: Student may contact the instructor or department for information.

SPAN 5970 Directed Readings
1-4 credit(s), max credits 9, 9 completions allowed; prereq MA or PhD candidate, instr consent, dept consent, college consent;
Instructor: STAFF
Description: 

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9 completions 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 completions 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 completions 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 completions 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 completions 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 completions 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 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Face,Timothy L
Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Forcinito,Ana
Description: Student may contact the instructor or department for information.

SPAN 5990 Directed Research
1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent;
Instructor: Hannene,Jaime Elizabeth
Description: Student may contact the instructor or department for information.

SPPT 3256 Latin American Cultural Discourse
3 credit(s); prereq SPAN 3015; Credit will not be granted if credit has been received for: SPPT 3256H;
Instructor: Ferreira,Ana Paula
Description: As cultural, national and racial mixings become the celebrated norm in our society, it is instructive to reflect upon the radically historical and contingent role that such mixings have played in the construction of national imaginaries. In Brazil, where the concept of miscegenation? was first used in relation to racially heterogeneous people, the mixed-raced and, particularly, the mulata have become national emblems. The idea that Latin America is, indeed, a continent of mestizos looms large in the US, even among scholars, independently of country, community, or historical period. This course aims to introduce students to racial thinking in Brazil, from the middle of the nineteenth century to the present, as the system of racial quotas in education has pressed for the institutionalization of a black/white distinction that most Brazilians reject. Students will learn about the social and anthropological concepts, literary representations, and ideological uses of racial ascriptions with particular attention to economic and political contexts. The main periods covered are romanticism, indigenism and the birth of nation; naturalism, abolition, and whitening; modernism and the invention of racial democracy; and the process of forging a black consciousness in an officially mixed-race nation. The approach is comparative, in regard to other Latin American countries, Cuba, Peru and Mexico being cases in point, but also bearing in mind the discourses on race? and racial mixings taking place in Europe and in the US. The course will be conducted in Portuguese, but students who are Spanish majors and not combined Spanish/Portuguese majors can use Spanish in written and oral work. Readings are primarily in Portuguese, with some secondary sources in Spanish and in English. Students who have difficulty reading the primary works in Portuguese may read them in available translations. Final grade will be based on class discussions, including pre-assigned brief oral reports; three partial in-class exams; and a research project that will be an individual, distinguishable part of a group project.
SLHS 1301W The Physics and Biology of Spoken Language
4 credit(s); Meets CLE req of Physical Science/Lab Core; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Introduction to the physics and biology of spoken language; the talker's production of sounds and words; transmission of sound; the listener's perception of what was heard; and computer analysis and synthesis of speech. Lectures will be supported by computer animations that show, in slow motion, rapidly changing dynamic events in acoustics, by on-line computer analysis of speech, and by laboratory sessions. Objectives: 1) Provide students who have a limited physics and biology background with an introduction to the physics and biology of spoken language, a field that is not only interesting, but of considerable social importance because of the dominant role that speech, language, and hearing play in society; and 2) Introduce students to recent technological advances associated with spoken language such as digital signal processing systems and speech recognition techniques. The trek through history will begin with Kratzenstein, who designed the first speech synthesizer in 1179, and end with an examination of the ways in which current research from disciplines such as physics, biology, psychology, linguistics, speech and hearing science, and so forth contributes to our understanding of the physics and biology of spoken language.
Style: 60% Lecture, 40% Discussion.
Grading: 50% mid exam, 25% final exam, 25% laboratory evaluation.
Exam Format: multiple choice

SLHS 1302 Rate Your World: Quantifying Judgments of Human Behavior
3 credit(s); Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF
Description: This course will allow students with little mathematics background to learn basic quantitative methods as they apply to measuring human behavior. Introductory mathematical principles will be applied to measuring behaviors such as: rating personality and attention, evaluating infant speech perception, studying opinion polls, measuring voice and sound, and quantifying speech recognition through cochlear implants. Material will be presented using a mixture of lecture and hands-on activities in class. Mid-term and final examinations will focus on lecture material. In-class activities will be analyzed and written into short reports.
Style: 40% Lecture, 30% Discussion, 30% Laboratory.
Grading: 25% mid exam, 25% final exam, 50% reports/papers.

SLHS 1401 Communication Differences and Disorders
3 credit(s); Credit will not be granted if credit has been received for: SLHS 3401; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: STAFF
Description: Human communication is a complex interpersonal process that involves speech, language, and hearing. These three aspects of communication are made up of neurological, cognitive, sensory, anatomical, and physiological components, which come together and develop within social contexts. Functional communication skills are necessary to successfully participate in all aspects of society and any breakdown in speech, language or hearing will have an impact on one's daily life-at home, school, work, and/or community settings. In order to determine if a communication disorder exists, we need to have a clear understanding of what constitutes "normal" communication. The definition of what is normal or acceptable speech, language, and hearing behavior may vary according to age, gender, language or dialectal background, and culture. Thus, these factors must be considered when identifying and treating communication disorders. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, assessment, and treatment of these disorders within the context of normal human variation. Reference to the professional fields of speech-language pathology and audiology will be given throughout the semester.

SLHS 1401 Communication Differences and Disorders
3 credit(s); Credit will not be granted if credit has been received for: SLHS 3401; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: STAFF
Description: Human communication is a complex interpersonal process that involves speech, language, and hearing. These three aspects of communication are made up of neurological, cognitive, sensory, anatomical, and physiological components, which come together and develop within social contexts. Functional communication skills are necessary to successfully participate in all aspects of society and any breakdown in speech, language or hearing will have an impact on one's daily life-at home, school, work, and/or community settings. In order to determine if a communication disorder exists, we need to have a clear understanding of what constitutes "normal" communication. The definition of what is normal or acceptable speech, language, and hearing behavior may vary according to age, gender, language or dialectal background, and culture. Thus, these factors must be considered when identifying and treating communication disorders. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, assessment, and treatment of these disorders within the context of normal human variation. Reference to the professional fields of speech-language pathology and audiology will be given throughout the semester.

SLHS 3401 Communication Differences and Disorders
3 credit(s); Credit will not be granted if credit has been received for: SLHS 3401; Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: STAFF
Description: Human communication is a complex interpersonal process that involves speech, language, and hearing. These three aspects of communication are made up of neurological, cognitive, sensory, anatomical, and physiological components, which come together and develop within social contexts. Functional communication skills are necessary to successfully participate in all aspects of society and any breakdown in speech, language or hearing will have an impact on one's daily life-at home, school, work, and/or community settings. In order to determine if a communication disorder exists, we need to have a clear understanding of what constitutes "normal" communication. The definition of what is normal or acceptable speech, language, and hearing behavior may vary according to age, gender, language or dialectal background, and culture. Thus, these factors must be considered when identifying and treating communication disorders. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, assessment, and treatment of these disorders within the context of normal human variation. Reference to the professional fields of speech-language pathology and audiology will be given throughout the semester.
SLHS 1402 The Talking Brain
3 credit(s); Meets CLE req of Social Science Core;
Instructor: Zhang,Yang
Description: Student may contact the instructor or department for information.

SLHS 3303 Language Acquisition and Science
3 credit(s); Meets CLE req of Social Science Core;
Instructor: Finestack,Lizabeth Haller
Description: Student may contact the instructor or department for information.

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 will have an impact on one's daily life—at home, school, work, and/or community settings. In order to determine if a communication disorder exists, we need to have a clear understanding of what constitutes "normal" communication. The definition of what is normal or acceptable speech, language, and hearing behavior may vary according to age, gender, language or dialectal background, and culture. Thus, these factors must be considered when identifying and treating communication disorders. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, assessment, and treatment of these disorders within the context of normal human variation. Reference to the professional fields of speech-language pathology and audiology will be given throughout the semester.

SLHS 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: Kohner,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 contexts. Functional communication skills are necessary to successfully participate in all aspects of society and any breakdown in speech, language or hearing will have an impact on one's daily life—home, school, work, and/or community settings. In order to determine if a communication disorder exists, we need to have a clear understanding of what constitutes "normal" communication. The definition of what is normal or acceptable speech, language, and hearing behavior may vary according to age, gender, language or dialectal background, and culture. Thus, these factors must be considered when identifying and treating communication disorders. This course will survey a range of communication disorders affecting children and adults, and will explore the origin, assessment, and treatment of these disorders within the context of normal human variation. Reference to the professional fields of speech-language pathology and audiology will be given throughout the semester.

SLHS 3555H Honors Thesis
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq See dir of undergrad studies for [thesis adviser, forms];
Instructor: Carney,Arlene Early
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 completion 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 completion allowed; prereq See dir of undergrad studies for [thesis adviser, forms];
Instructor: Windsor,Jennifer
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis
A-F only, 1-2 credit(s), max credits 2, 1 completion 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 completion 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 completion 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 completion allowed; prereq See dir of undergrad studies for [thesis adviser, forms];
Instructor: Kohnert,Kathryn
Description: Student may contact the instructor or department for information.

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
SLHS 3555H Honors Thesis
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prerequisite: 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 completion allowed; prerequisite: See dir of undergrad studies for [thesis adviser, forms]; 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; prerequisite: 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; prerequisite: 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; prerequisite: Undergrad doing research; Instructor: Deruiter, Mark
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prerequisite: Undergrad doing research; Instructor: Schlauch, Robert S
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prerequisite: Undergrad doing research; Instructor: Windsor, Jennifer
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prerequisite: Undergrad doing research; Instructor: Reichle, Joe E
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24; prerequisite: Undergrad doing research; Instructor: Kennedy, Mary R T
Description: Student may contact the instructor or department for information.

SLHS 4801 Hearing Measurement and Disorders
3 credit(s); prerequisite: [3301, 3302] or [CDis 3301, CDis 3302] or instr consent; Instructor: STAFF
Description: This course will provide a basic orientation to audiologic assessment and disorders of the auditory system. The course is geared towards undergraduate students majoring in Speech-Language-Hearing Sciences. The anatomy of the ear and the scope of practice in audiology will be reviewed. Emphasis will be placed on the tests used to assess hearing, including pure-tone audiometry and masking, speech audiometry, immittance, electrophysiological tests, pure-tone screening, and pediatric assessment. Various disorders of the outer, middle, and inner ear will be described. Case management for clients with hearing loss will also be discussed. Students will obtain hands-on experience with otoscopic examination, pure tone audiometry, tympanometry, and hearing screening.
Style: 80% Lecture, 10% Discussion. In-class activities Grading: 50% mid exam, 30% final exam, 10% quizzes, 10% laboratory evaluation.
Exam Format: Multiple choice, completion, and short answer questions

SLHS 4801 Hearing Measurement and Disorders
3 credit(s); prerequisite: [3301, 3302] or [CDis 3301, CDis 3302] or instr consent;
Course: SLHS 5506 Introduction to Augmentative and Alternative Communication

Instructor: Reichle, Joe E

Description: One purpose of this course is to provide an overview of the range of augmentative and alternative communication systems available for persons with developmental and acquired disabilities. A second purpose is to teach participants how to implement assessment and intervention procedures to establish gestural and graphic mode communication systems. Many of the examples used in teaching this course address the communicative needs of school-aged populations who experience moderate/severe developmental disabilities. However, most of the applications will be relevant to augmentative communication applications for individuals acquired disabilities. Although not a primary objective of this course, you will be exposed to the features of several electronic communication aids. At the conclusion of this course, you should have obtained the following competencies: 1) an understanding of the minimal requirements of an acceptable augmentative or alternative communication system. 2) familiarity with the advantages and disadvantages of graphic and gestural communication modes. 3) a working knowledge of direct select and scanning selection techniques used in accessing a graphic mode communication system. 4) an understanding of assessment strategies designed to match learners with an augmentative communication system(s). 5) an understanding of the criteria for selecting initial vocabulary for an augmentative system user.

Style: 65% Lecture, 35% Laboratory.

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

Description: Students taking this course will be expected to achieve the following learning outcomes: I) Learner outcomes for voice disorders - Identify the structures and normal function of voice production; Define and identify disorders of the voice; Describe how the normal structures and function of voice production may change with the different voice disorders; Describe different approaches to voice assessment and intervention utilizing your knowledge of normal structures and function. II) Learner outcomes for cleft palate - Identify the components and general function of the velopharyngeal mechanism; Describe the basic genetic and embryological development as it relates to cranial-facial disorders; Describe the basic medical-surgical procedures involved in individuals with craniofacial anomalies; Describe the assessment and intervention strategies of communication disorders related to cleft palate.

Style: 80% Lecture, 20% Discussion.

Grading: 40% mid exam, 40% final exam, 20% other evaluation. Inservice Project

Exam Format: multiple choice and essay

Course: SLHS 5505 Dysphagia and Motor Speech Disorders

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% Demonstrations, 5% Field Trips, 15% Guest Speakers.

Course: SLHS 5605 Language and Cognitive Disorders in Adults

Instructor: Kennedy, Mary R T

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

Course: SLHS 5606 Introduction to Augmentative and Alternative Communication

Instructor: Reichle, Joe E

Description: One purpose of this course is to provide an overview of the range of augmentative and alternative communication systems available for persons with developmental and acquired disabilities. A second purpose is to teach participants how to implement assessment and intervention procedures to establish gestural and graphic mode communication systems. Many of the examples used in teaching this course address the communicative needs of school-aged populations who experience moderate/severe developmental disabilities. However, most of the applications will be relevant to augmentative communication applications for individuals acquired disabilities. Although not a primary objective of this course, you will be exposed to the features of several electronic communication aids. At the conclusion of this course, you should have obtained the following competencies: 1) an understanding of the minimal requirements of an acceptable augmentative or alternative communication system. 2) familiarity with the advantages and disadvantages of graphic and gestural communication modes. 3) a working knowledge of direct select and scanning selection techniques used in accessing a graphic mode communication system. 4) an understanding of assessment strategies designed to match learners with an augmentative communication system(s). 5) an understanding of the criteria for selecting initial vocabulary for an augmentative system user.

Style: 65% Lecture, 35% Laboratory.

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

Course: SLHS 5502 Voice and Cleft Palate

Instructor: Watson, Peter J

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

Course: SLHS 5503 Dysphagia and Motor Speech Disorders

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% Demonstrations, 5% Field Trips, 15% Guest Speakers.

Course: SLHS 5605 Advanced Rehabilitative Audiology

Instructor: Rao, Aparna

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

Course: SLHS 5610 Laboratory Methods in Audiology

Instructor: Schlauch, Robert S

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

Course: SLHS 5820 Clinical Research and Practice: Grand Rounds

Instructor: Kohnert, Kathryn

Description: COURSE TITLE IS: CLINICAL ISSUES IN BILINGUALISM AND CULTURAL DIVERSITY This course will survey topics in cultural diversity, bilingualism and second language learning in typical children and adults as well as in those with developmental and acquired communication impairments. A general course objective is to increase understanding of basic and applied issues across a broad range of culturally and linguistically diverse populations.

Course: SLHS 5805 Clinical Issues in Bilingualism and Cultural Diversity

Instructor: Rao, Aparna

Description: COURSE TITLE IS: CLINICAL ISSUES IN BILINGUALISM AND CULTURAL DIVERSITY This course will survey topics in cultural diversity, bilingualism and second language learning in typical children and adults as well as in those with developmental and acquired communication impairments. A general course objective is to increase understanding of basic and applied issues across a broad range of culturally and linguistically diverse populations.

Course: SLHS 5805 Advanced Rehabilitative Audiology

Instructor: Rao, Aparna

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

Course: SLHS 5810 Laboratory Methods in Audiology

Instructor: Schlauch, Robert S

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

Course: SLHS 5820 Clinical Research and Practice: Grand Rounds

Instructor: Kohnert, Kathryn

Description: COURSE TITLE IS: CLINICAL ISSUES IN BILINGUALISM AND CULTURAL DIVERSITY This course will survey topics in cultural diversity, bilingualism and second language learning in typical children and adults as well as in those with developmental and acquired communication impairments. A general course objective is to increase understanding of basic and applied issues across a broad range of culturally and linguistically diverse populations.

Course: SLHS 5993 Directed Study

Instructor: STAFF

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

Course: SLHS 8410 Seminar: Research

Instructor: Sasisekaran, Jayanthi

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

Course: SLHS 8430 Proseminar in Speech-Language-Hearing Sciences

Instructor: Rao, Aparna

Description: Student may contact the instructor or department for information.
SLHS 8720 Clinical Education in Speech-Language Pathology
S-N only, 1-8 credit(s), max credits 24, 24 completions 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 completions 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 completions 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 completions allowed; prereq instr consent;
Instructor: Carney,Ariane Earley
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions 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 completions allowed; prereq instr consent;
Instructor: Carney,Ariane Earley
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;
Instructor: Carney,Ariane Earley
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;
Instructor: Windsor, Jennifer
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;
Instructor: Reichle, Joe E
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;
Instructor: Kennedy, Mary R T
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;
Instructor: Nelson, Peggy B
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;
Instructor: Munson, Benjamin
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;
Instructor: Watson, Peter J
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed; prereq instr consent;
Instructor: Zhang, Yang
Description: Student may contact the instructor or department for information.

SLMG 1701 Introduction to Sport Management
A-F only, 2 credit(s);
Instructor: Brownlee PhD, Eric A
Description: Student may contact the instructor or department for information.

SMGT 3111 Sports Facility and Event Management
A-F only, 3 credit(s); prereq SMGT major or instr consent ;
Instructor: Warren, Clinton J
Description: Student may contact the instructor or department for information.

SMGT 3111 Sports Facility and Event Management
A-F only, 3 credit(s); prereq SMGT major or instr consent ;
Instructor: Richardson, Tiffany
Description: Student may contact the instructor or department for information.

SMGT 3143 Organization and Management of Sport
A-F only, 3 credit(s); prereq SMGT major;
Instructor: Houghton, Emily Jane
Description: Student may contact the instructor or department for information.
Description: Designed to focus on the principles, policies, and procedures involved in the administration and management of sports programs at the interscholastic and intercollegiate levels.

SMGT 3421 Business of Sport
A-F only, 3 credit(s); prereq SMGT or kin or rec major or instr consent;
Instructor: Gaddey, Roy Arthur
Description: Student may contact the instructor or department for information.

SMGT 3501 Sport in a Diverse Society
A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: LaVoi, Nicole Marie
Description: Relationship between sport and contemporary social institutions. Groups/individuals who have historically been marginalized or excluded from sport participation. Race, sex, social class, sexual orientation, physical (dis)abilities.

SMGT 3501 Sport in a Diverse Society
A-F only, 3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Social Science Core;
Instructor: Bhala, Jennifer Anita
Description: There can be no question that sport is currently a prevalent social institution in North America. Clearly, sport and patterns of physical activity are symbolic of the larger socio-cultural order. This course is designed to examine the pervasive and significant relationships between the social constructions of sport and physical activity to contemporary social institutions as politics, religion, economics, education and mass media. It will introduce students to a broad perspective of social issues related to sport. In addition it will afford students the opportunity to critically explore and increase their understanding of specific social categories such as age, gender, race, sex, social class, religion, sexual orientation and physical disabilities, intersect to influence participation and experiences of individuals within sport and physical activity contexts. In short, students will explore the "deeper game? through which sports and physical activities become an integral part of the social and cultural worlds in which we live. Sport sociology is located within the discipline of social science and this course is designed to meet the criteria for the liberal education social science core (SSSc). In this course students will be introduced to the ways of knowing within the social science discipline. Students will learn about social science including theories, the methods by which social scientists collect, analyze and interpret data, and how social scientists interpret and explain human behavior within sport and physical activity contexts. Students will develop critical thinking and reflection skills, broaden their ways of knowing and thinking about what they know, and have ample opportunity to hone discussion and writing skills.

SMGT 3601 Ethics and Values in Sport
A-F only, 2 credit(s); prereq SMGT major;
Instructor: Schull, Vicki Denise
Description: Violence, demonstrative behavior, sportsmanship. Ethical issues in playing of sport and in management/governance of sport industry.

SMGT 3631 Sport Marketing
A-F only, 3 credit(s); prereq SMGT major or instr consent;
Instructor: Warren, Clinton J
Description: Student may contact the instructor or department for information.

SMGT 3632 Sport Sales and Fund-raising
A-F only, 3 credit(s); prereq Sport Management major or instr consent;
Instructor: Brownlee PhD, Eric A
Description: Student may contact the instructor or department for information.

SMGT 3861 Legal Aspects of Sport
A-F only, 3 credit(s); prereq SMGT major or instr consent;
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.

STAT 1001 Introduction to the Ideas of Statistics
4 credit(s); prereq High school algebra; Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF
Description: Introduction to the Ideas of Statistics is a course that teaches the basic ideas of statistics without getting bogged down in equations, Greek letters, and complicated calculations. Conceptual issues, which make the difference between valid and bogus uses of statistics, are faced squarely and not "dumbed down" but the mathematics is kept simple and explained in plain English, graphs, and diagrams. Topics covered are design of experiments (what makes a valid scientific experiment), descriptive statistics (histograms, the bell-shaped curve, and all that), regression and correlation, probability and the law of averages, chance variability of statistical estimates, the accuracy of polls and sample surveys, and the use of data as evidence in testing and plausibility of claims made about populations.
Style: 75% Lecture, 25% Laboratory.
Grading: 40% mid exam, 40% final exam, 20% problem solving.
Exam Format: essay, problem solving and multiple choice.

STAT 3011 Introduction to Statistical Analysis
4 credit(s); prereq Two yrs high school math; Credit will not be granted if credit has been received for: STAT 5021; Meets CLE req of Mathematical Thinking Core;
Instructor: STAFF
Description: This course provides an introduction to basic methods of statistics, including descriptive statistics, elementary probability ideas and random variables, distributions of sample averages. One and two sample t-procedures, simple linear regression, basic ANOVA. The target audience is undergraduates from all majors. Stat 3011 and Stat 3021 are both entry courses into the statistics curriculum for undergraduates.
Exam Format: problem solving

STAT 3021 Introduction to Probability and Statistics
3 credit(s); prereq Math 1272;
Instructor: STAFF
Description: This course will start with an introduction of probability, including interpretations of probability, axioms of probability, and the use of counting methods for solving probability problems, conditional probability, Bayes theorem, independence, random variables and distributions, expected values, the binomial, Poisson, normal and other distributions, the law of large numbers, and the central limit theorem. Then we will cover applications of the above to the theory of statistical inference, including estimation, confidence intervals, and hypothesis tests.
Style: 100% Lecture.
Grading: 45% mid exam, 45% final exam, 10% problem solving.

Exam Format: Problem solving

STAT 3022 Data Analysis
4 credit(s); prereq 3011 or 3021;
Instructor: STAFF
Description: Further topics in regression and ANOVA: non-parametric methods; model selection and verification; writing statistical reports; use of statistical software; additional selected topics.

STAT 4893W Senior Paper
1 credit(s); prereq Stat major; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: STAT 4893W is a requirement for a BA in Statistics in CLA. It also fulfills the University requirement of a Writing Intensive course in the major. It can be satisfied in several ways including but not limited to directed study culminating in a paper on a specialized area of Statistics (most common choice), carrying out a "case study" involving data collection and analysis and a report, and writing and documenting a computer program to implement a nontrivial statistical technique. Students should enroll in any semester of their Senior year. If work is unfinished at semester end (as frequently happens), an incomplete (I) is usually granted. The topic of the paper should be chosen in consultation with a Statistics faculty supervisor. Frequently the faculty member will be the student's instructor in STAT 5xxx, and the paper will build from the course. See http://www.stat.umn.edu/ugrad/stat4893.html for more information.
Grading: 100% reports/papers.

STAT 5021 Statistical Analysis
4 credit(s); prereq credit will not be granted if credit received for: 3011; College algebra or instr consent; Stat course recommended; Credit will not be granted if credit has been received for: STAT 3011;
Instructor: STAFF
Description: The primary audience for this course is graduate students in non-statistics- major programs who need statistical competence. Typical needs would be the analysis of data using common statistical methods, the design of single-factor experiments and the ability to read journal articles and assess their statistical content critically. After completion of the course, students are able to carry out one-and-two sample tests, set up confidence intervals for means, proportions and differences in means and proportions. They can fit single-predictor regressions and one-way analysis of variance, along with checks of the model assumptions underlying theses methods. The course includes a brief non-calculus introduction to probability theory and statistical distributions.
Style: 50% Lecture, 25% Discussion, 25% Laboratory.

STAT 5102 Theory of Statistics II
4 credit(s); prereq 5101 or Math 5651; Credit will not be granted if credit has been received for: STAT 4102;
Instructor: Geyer,Charles J
Description: Student may contact the instructor or department for information.

STAT 5201 Sampling Methodology in Finite Populations
3 credit(s); prereq 3011 or 3021 or 5021 or instr consent;
Instructor: Meeden,Glen Dale
Description: An introduction to finite population sampling covering simple random sampling, stratified sampling, cluster sampling, unequal probability sampling and systematic sampling. Ratio estimators, regression estimators and model based estimation will be discussed.
Style: 100% Lecture.
Grading: 40% mid exam, 40% final exam, 20% written homework.

STAT 5302 Applied Regression Analysis
4 credit(s); prereq 3022 or 4102 or 5021 or 5102 or instr consent;
Instructor: Cook,R. Dennis
Description: This course is on statistical methods for studying the dependence of a response variable (e.g., life expectancy) on a number of predictor variables (e.g., age, smoking status, gender, ...). It is designed for beginning graduate and advanced undergraduate students who will likely use regression in future studies. Students will make extensive use of the computer program Arc, available at www.stat.umn.edu/arc. A description of the textbook is available at this web-site as well. Arc is based on a point-and-click interface; no programming skills are required. Grading will be based on two mid-semester exams, weekly assignments and a final exam.
Style: 75% Lecture, 25% Laboratory.
Grading: 35% mid exam, 25% final exam, 30% problem solving.
Exam Format: Multiple choice and essay

STAT 5993 Tutorial
1-6 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: STAFF
Description: Students may contact the department for information.

STAT 8052 Applied Statistical Methods 2: Design of Experiments and Mixed-Effects Modeling
A-F only, 4 credit(s); prereq 8051 or instr consent;
Instructor: Grund,Birgit
Description: Classical experimental designs, and mixed effect models. How to recognize designs. How to design/analyze experiments. ANOVA for factorial designs, contrasts, multiple comparisons, complete/incomplete block designs, unbalanced data, confounding, fractional factorials, response surfaces, nested designs, split-plots, random effects, mixed effects, repeated measures, longitudinal data, generalized estimating equations. R software is used.
Style: 85% Lecture, 15% Laboratory.
Grading: 40% mid exam, 40% final exam, 20% written homework.
Exam Format: in-class

STAT 8054 Statistical Methods 4: Advanced Statistical Computing
A-F only, 3 credit(s); prereq 8053 or instr consent;
Instructor: Geyer,Charles J
Description: Student may contact the instructor or department for information.

STAT 8102 Theory of Statistics 2
4 credit(s); prereq 8101, Statistics graduate major or instr consent;
Instructor: Jiang,Tiefeng
Description: Student may contact the instructor or department for information.
STAT 8112 Mathematical Statistics II
3 credit(s); prereq 8111;
Instructor: Wang, Lan
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 completion allowed;
prereq Grad stat major or instr consent;
Instructor: Rendahl, Aaron K
Description: Student may contact the instructor or department for information.

STAT 8913 Literature Seminar
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
prereq Statistics grad major or instr consent;
Instructor: Rodden, Glen Dale
Description: Student may contact the instructor or department for information.

STAT 8931 Advanced Topics in Statistics
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Qiu, Peihua
Description: Student may contact the instructor or department for information.

STAT 8932 Advanced Topics in Statistics
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Shen, Xiaotong
Description: Student may contact the instructor or department for information.

SCMC 1201 Introduction to Cinema and Media Culture
4 credit(s); prereq credit will not be granted if credit received for: CSCL 1201; Credit will not be granted if credit has been received for: CSCL 1201; Meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: The emergence of what is variously referred to as the "Information Age" and "Society of the Spectacle" has made it necessary for us to think critically about the media. Since visual media have the most pervasive influence on our everyday lives, this course will focus on how forms such as advertising, film, and television work, affect perception, and structure meaning. We will read some of the most important theoretical and historical texts that provide insight into our "ways of seeing." No prior exposure to media theory is expected, but although this is an introductory class, students will be expected to read and work through challenging material. We will read a variety of critics who have attempted to analyze cinema and media culture and we will also begin to develop a vocabulary for formal visual analysis.

SCMC 3001W History of Cinema and Media Culture
4 credit(s); Meets CLE req of Writing Intensive;
Instructor: Johnson, Kiel Wayne
Description: SCMC 3001 examines "our" contemporary media culture and its artifacts by way of the history and current role of vision and visuality that has become our "window on the world" and the epistemological foundations that inform our (post?)modern understanding of aesthetics, politics, experience, perception, and identity -- in short, the ways we "make meaning" of our culture and our place (indeed, placement) within it. Rather than attempt to cover the linear development of the amorphous force called "media culture" (or, worse, to proceed with the idea that such a history is something comprehensible in the limited time we will share in this course), we will instead begin at "the end", with the purported "death of the cinema." From this situation, we will start back, in both scope and time, to explore key concepts and questions regarding the power of the visual as it has taken new forms and functions in Western culture from "the modern" to "the postmodern," the ways in which technological, social, and industrial developments in "the media" have given rise to new theoretical and philosophical perspectives in the academy, and the power, limits, and possibilities of systems of representation as they impact daily life ... all considered in terms of "how we got here," and if "here" is really all we think, see, and know it to be. As such, our journey will be one of a selective travelogue, composed in snapshots torn from the fabric of a larger whole, giving an incomplete but hopefully meaningful image of the complex intersections between media, culture, experience, and scholarship over time.

SCMC 3202 Intermediate Digital Filmmaking
A-F only, 4 credit(s); prereq 3201 or instr consent;
Instructor: Bizri, Hisham M.
Description: Student may contact the instructor or department for information.

SUST 3003 Sustainable People, Sustainable Planet
190 Coffey Hall

SCM 1000 Colloquium
S-N only, 1.5 credit(s); max credits 3; prereq Grad SST minor;
Instructor: STAFF
Description: This colloquium is a series of weekly lectures by nationally and internationally known scholars with diverse disciplinary and methodological backgrounds speaking on a variety of issues on the history and philosophy of science and technology.

SST 8200 Seminar: Models, Theories, and Reality
3 credit(s); prereq HSCL 8111 or [Phil 8601 or Phil 8602 or Phil 8605] or instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

SST 8200 Seminar: Philosophy of the Physical Sciences
3 credit(s), max credits 6; prereq instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

SST 8200 Seminar: Science, Technology, and Society
3 credit(s); prereq HSCL 8111 or [Phil 8601 or Phil 8602 or Phil 8605] or instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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.

SUS 3003 Sustainable People, Sustainable Planet
190 Coffey Hall

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
University of Minnesota - Course Guide for Twin Cities Campus
Spring 2010

3 credit(s); prereq Soph or jr or sr; Credit will not be granted if credit has been received for: GLOS 3304; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Environment Theme; Instructor: Philippson, Daniel J
Description: Student may contact the instructor or department for information.

SUST 3480 Topics in Sustainability: Internship
A-F only, 1-4 credit(s), max credits 5, 6 completions allowed; Instructor: Mercer-Taylor, Beth
Description: Student may contact the instructor or department for information.

SUS 4004 Sustainable Communities
A-F only, 3 credit(s); prereq [3003 or GLOS 3304, jr or sr] in sustainability studies minor or instr consent; Instructor: Nerbonne, Julia Frost
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 completion 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, Angelauki
Description: Student may contact the instructor or department for information.

SWAH 4222 Beginning Swahili II
2 credit(s); prereq Grad student; Instructor: Muaka, Angelauki
Description: Student may contact the instructor or department for information.

SWAH 4226 Intermediate Swahili II
2 credit(s); prereq [4225 or equiv], grad student; Credit will not be granted if credit has been received for: SWAH 3226; Instructor: Muaka, Angelauki
Description: Student may contact the instructor or department for information.

Swedish
205 Folwell Hall

SWED 1001 Beginning Swedish
5 credit(s); Credit will not be granted if credit has been received for: SWED 4001; Instructor: STAFF
Description: This is the first course in the first-year language instruction sequence (1001-2), designed to develop a basic communicative proficiency in Swedish. Students will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Sweden is an integral part of the course. See the description for Swed 4001 for an option for qualified students to register for this course for 2 credits (and lower tuition) instead of 4 credits.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.
Grading: 100% other evaluation. 50% reading/writing, 50% oral/aural
Exam Format: structured exercises in all 4 modalities and grammar, pronunciation, vocabulary and culture.

SWED 1002 Beginning Swedish
5 credit(s); Credit will not be granted if credit has been received for: SWED 4002; Instructor: STAFF
Description: This course continues the beginning sequence in Swedish, which covers four language skills: listening, speaking, reading, and writing. Students will also gain knowledge of Swedish culture through various means, including audio-visual aids available in the language laboratory. Lecture, class discussions and classroom exercises will be conducted in Swedish. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Sweden is an integral part of the course. You may register for this course under the number SWED 4002 for a reduced number of credits (and lower tuition) if you have already passed the Language Proficiency Exam (LPE) in another language or are a graduate student or a non-degree-seeking student. Contact the Department Office at (612) 625-2080 for a permission number.
Style: 10% Lecture, 70% Discussion, 20% Laboratory. 50% reading/writing; 50% oral/aural
SWED 1004 Intermediate Swedish
5 credit(s); prereq 1003; Credit will not be granted if credit has been received for: SWED 4004;
Instructor: STAFF
Description: This course continues the presentation of language skills--speaking, writing, listening and reading begun in Swedish 1001/1002. Students will review, examine and develop these skills through a content-based curriculum. Students will be introduced to a variety of Swedish texts--stories, songs, newspaper articles, video and Internet resources. The review of basic points of Swedish grammar with an emphasis on sentence structure and word order will enable students to improve their writing skills in connection with process-oriented writing assignments. Vocabulary building will be supported by a rich array of texts that the students will be reading during their second year. Speaking and listening will be practiced in role play activities involving representative social situations. The interaction will familiarize students with the different levels of formality and intimacy used in conversational settings, and the codes and mythologies unique to Swedish culture. You may register for this course under the number Swed 4004 for a reduced number of credits (and lower tuition) if you have already passed the Language Proficiency Exam (LPE) in another language or are a graduate student or a non-degree-seeking student. Contact the Department Office at (612) 625-2080 for a permission number.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.

SWED 4002 Beginning Swedish
2 credit(s); prereq 1004 in another language or passing score on LPE or grad student; Credit will not be granted if credit has been received for: SWED 1002;
Instructor: STAFF
Description: This course continues the beginning sequence in Swedish, which covers four language skills: listening, speaking, reading and writing. Students will also gain knowledge of Swedish culture through various means, including audio-visual aids available in the language laboratory. Lecture, class discussions and classroom exercises will be conducted in Swedish. Class sessions will emphasize interactive communicative activities in pairs and small groups, with a focus on improving listening and speaking skills. Additional class time will be spent on reading, writing, and grammar. Students are expected to practice these skills outside of class as well. Learning about life and culture in Sweden is an integral part of the course. You may register for this course under the number Swed 4002 for a reduced number of credits (and lower tuition) if you have already passed the Language Proficiency Exam (LPE) in another language or are a graduate student or a non-degree-seeking student. Contact the Department Office at (612) 625-2080 for a permission number.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.

TMJ/Craniofacial Pain
15-209 Malcolm Moos Health Sciences Tower

TMJ 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.

TMJ 8442 Advanced Clinical TMJ and Craniofacial Pain
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;
prereq Participation in TMJ and orofacial pain advanced education program;
Instructor: Mulet Pradera DDS,MS,Mariona
Description: This course provides the student with clinical experience in the diagnosis and management of TMD, complex chronic orofacial pain and oral medicine conditions under the supervision of the course director and/or other faculty. A multidisciplinary treatment approach of patients with TMD and orofacial pain is used.

Teaching English as a Second Language
214 Nolte Center

TESL 3001W 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/Pubi Ethics Theme; meets CLE req of Cultural Diversity Theme; meets CLE req of Writing Intensive;
Instructor: STAFF
Description: TESL 3001 is designed to be a practical course, using a service learning approach, to prepare students to teach ESL in community programs. The course uses lectures, demonstrations, discussions, group work, and practice teaching to develop student skill and understanding regarding techniques for teaching and assessing English as a second language listening, speaking, reading, and writing competencies. Students will also gain insight into the phonological and syntactic systems of English, the linguistic, psychological, and sociocultural factors that influence second language acquisition, and cultural knowledge of local immigrant groups, such as Hmong, Somali, and Hispanics. Course assignments aim to promote reflection about teaching and learning, cultural identity and cross cultural communications, and addressing lesson management issues and needs analyses. An internship at a school or agency teaching ESL is required and will be arranged on the first day of class. The internship requires 2-3 hours of volunteer teaching per week. The internship gives students a context to apply lessons from class and the class serves as a sounding board to discuss issues that arise during the internship. Giving presentations in class, participating in small group and whole class discussions, and writing to connect theory and practice are important parts of the class. The class is 4 credits, meets CLE requirement of Citizenship/Pub-Ethics Theme; meets CLE requirement of Cultural Diversity Theme; meets Writing Intensive requirements and is also part of the TESL minor.
Style: 15% Lecture, 20% Discussion, 35% Small Group Activities, 10% Student Presentation, 20% Guest Speakers.
Note: service learning is a large part of this course, but occurs
outside of class time.

Grading: 15% in-class presentation, 15% class participation, 25% other evaluation. Exams include short answers, essays, and multiple choice questions.

Exam Format: short answer essay

TESL 3401 Introduction to Pronunciation and Grammar for ESL

Teachers

A-F only, 4 credit(s)

Instructor: Margolis, Douglas

Description: As an introductory course, TESL 3401 will aim to introduce the language analysis field. Key concepts and theories, to students and survey three main areas: (a) the English phonological system, (b) word knowledge, and (c) English grammar. Rather than exhaustive treatment of these three areas, students will examine a number of issues within each and explore how ESL textbooks and instructors advance ESL learners’ language proficiency in these areas. The course will also introduce students to the history of the English language insomuch as it affects the three areas stated above. The course assumes no prior background. At the end of the course, students should possess the knowledge to answer typical ESL learner questions and address a number of typical learner errors. Students should be able to avoid ineffective means of addressing ESL learner errors and questions. The knowledge students gain from this course should prepare them for more advanced study at the graduate level. Students should also gain a better understanding of best practices in regards to addressing grammar, vocabulary and pronunciation issues in ESL contexts.

Style: 15% Lecture, 25% Discussion, 40% Small Group Activities, 20% Student Presentation.

Grading: 50% additional semester exams, 20% in-class presentation, 20% class participation, 10% other evaluation. Class participation grade will include online and classroom participation.

Exam Format: Exams include short answer and 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, conditionals, relative clauses, complementation, reported speech), and of basic elements of pragmatics and discourse analysis as applied to English usage. Pedagogical implications of these considerations will be investigated. TESL 5402 is the second of a two-semester sequence. The sequence is required in the first year for M.A. in ESL students, and may also be taken by other graduate students interested in teaching ESL to adults. Prerequisites: TESL 5401.

Style: 50% Lecture, 50% Discussion.

Grading: 40% reports/papers, 35% quizzes, 15% in-class presentation, 10% class participation.

Exam Format: problem solving

TESL 5722 Practicum in Teaching English as a Second Language

S-N only, 6 credit(s), max credits 12; 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: Margolis, Douglas

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

TESL 5993 Directed Studies

1-4 credit(s), max credits 9, 9 completions allowed; prereq instr consent, dept consent, college consent

Instructor: STAFF

Description: In order to obtain Directed Studies credit through TESL 5993, students must fill out a Student/Faculty Contract for Directed Study. On the form, the student indicates the title of the project, the number of desired semester credits (1-4), the learning objectives associated with its, methods and resources to be used (books, articles, etc.), and also indicates how the results of the project will be evaluated. Then a Faculty Member for ESL must approve it and sign as the supervisor for the project. Forms are available in the department office.

Theatre Arts

580 Rarig Center

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 (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 Global Perspective Theme; meets Lib Ed req of Arts & Humanities 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 Global Perspective Theme; meets Lib Ed req of Arts & Humanities 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.

This information is accurate as of 11/3/2009 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.
TH 1102 Drama and the Media
3 credit(s); Meets CLE req of Cultural Diversity Theme; meets CLE req of Other Humanities Core;
Instructor: Walsh, Shannon L
Description: Student may contact the instructor or department for information.

TH 1301 Acting/Non-Majors
3 credit(s);
Instructor: STAFF
Description: This course is designed to enable students without prior experience in theatre to better appreciate theatrical elements, develop a vocabulary for discussing theatre, and recognize the degree to which the study of basic acting techniques can inform perceptions of self and others. Students are taught how to act within imaginary circumstances, make bold choices, and develop interpersonal trust and ensemble awareness. Required text: ACTING ONE by Robert Cohen.
Style: 10% Discussion, 90% Laboratory.
Grading: 30% reports/papers, 30% in-class presentation, 20% other evaluation. Attendance & Participation; 20% Attitude & Growth.

TH 1321 Beginning Acting: Fundamentals of Performance
3 credit(s); prerequisite 1101 or Concurrent registration is required (or allowed) in 1101;
Instructor: STAFF
Description: Introduces beginning students to a widely applicable, comprehensive vocabulary and techniques for practical performance studies, including the use and training of the instrument; the creation of theatrical ideas or choices; the creation of dramatic &quot;phrases&quot; by sequencing ideas and choices to tell stories; and the significance of circumstances for choice making. The course has three overarching objectives: providing an introduction to creation processes specific to the performer, psychological and physical training of the acting instrument, and training the personal imagination. The first part of a two-course sequence (with TH 1322, Creating the Performance) intended for theatre arts majors. Required reading: A compilation of performance processes, theories and techniques including: Lecoq, Grotowski, Stanislavski, Meyerhold, Chekov, etc.
Style: 10% Discussion, 90% Laboratory.
Grading: 25% reports/papers, 25% in-class presentation, 25% other evaluation. Attendance & Participation; 25% Attitude & Growth.

TH 1322 Creating the Performance
3 credit(s); prerequisite 1321;
Instructor: Seifert, Luverne G
Description: Student may contact the instructor or department for information.

TH 1322 Creating the Performance
3 credit(s); prerequisite 1321;
Instructor: Kayim, Gulgun Hayati
Description: Student may contact the instructor or department for information.

TH 1396 BFA Voice and Speech II
2 credit(s); prerequisite 1392;
Instructor: STAFF
Description: BFA Core Component

TH 1501 Introduction to Design and Technology for Live Performance
3 credit(s); meets CLE req of Other Humanities Core;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

TH 1911W Freshman Seminar: Theatre, Entertainment With Attitude
3 credit(s); prerequisite Fr with no more than 30 cr; Meets CLE req of Writing Intensive;
Instructor: Bernstein, David Joseph
Description: Is live performance obsolete? Are art and entertainment the same, as in "A & E"? In this freshman seminar for non-theater majors, we will address these questions by examining 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 1950 Topics in Theater: Theatre for Social Justice
2 credit(s), max credits 6;
Instructor: Mandell, Janice L
Description: Student may contact the instructor or department for information.

TH 2395 BFA Acting IV
2 credit(s); prerequisite BFA-Acting sophomore;
Instructor: Mitchell, Kenneth N
Description: Student may contact the instructor or department for information.

TH 2396 BFA Voice and Speech IV
2 credit(s); prerequisite BFA-acting, sophomore;
Instructor: STAFF
TH 3399 BFA Rehearsal and Performance II

Instructor: Nash, Elizabeth

Description: This is an intensive lab and performance course that explores the development of scene interpretation, character development, repertory building and physical tendencies that block our energy. We will work to: demystify the creative process, expose and break down personal physical tendencies that block our energy, develop more specific articulation of our bodies, expand the body's connection to breath and the voice, and explore our bodies' dynamic relationship with space and other bodies; all with the goal of making more vivid, embodied choices that are essential whether we are interpreting a role or generating original material. We will interact with masks, objects, sticks, set pieces, each other's bodies, space, gravity, words, silence and ourselves. We will explore a full range of psychophysical expression, from the everyday to the metaphoric and poetic. We will read and reflect on other physical methods and research the roots of Margolis Method, giving us a frame of reference from which to begin sculpting your own physical approach to acting. Assignments will range from creating an original scene to interpreting a scene from dramatic literature. Discover how a disciplined corporeal technique can actually free you to connect to your emotions more deeply, harness and draw upon your energy more powerfully, and cause your playing to come to life more fully.

Exam Format: 100% special projects.

Grading: 20% reports/papers, 30% in-class presentation, 20% class participation, 30% other evaluation. Attendance will figure in grading.

Style: 10% Discussion, 90% Student Presentation.

TH 3385 BFA Intensive I

Instructor: STAFF

Description: BFA Core Component

TH 3398 BFA Rehearsal & Performance I

Instructor: STAFF

Description: BFA Core Component

TH 3399 BFA Rehearsal and Performance II

Instructor: STAFF

Description: BFA Core Component
TH 3521 Introduction to Scenic Design for Theater and Performance
3 credit(s); prereq 3571; Instructor: Brockman, G Lance
Description: Student may contact the instructor or department for information.

TH 3571 Introduction to Stage Technology
A-F only, 3 credit(s); prereq 1501; Instructor: Binder-Pettigrew, Susan M
Description: Student may contact the instructor or department for information.

TH 3950 Topics in Theatre: Legal Acts and Actors
2 credit(s), max credits 8, 8 completions allowed; prereq Varies by topic;
Instructor: Parks, Sonja
Description: In Legal Acts and Actors students will play various roles in a semester-long improvisational drama. In weekly sections, Law School students practice skills in interviewing, counseling, negotiation and mediation with student actors in various roles as prompted by the Law School. Theatre students will prepare for their roles and role play with instructor Sonja Parks, building skills in character development and improvisation. While the primary role students play will be that of the client, actors also shift roles. Over the semester they may play: owner of a used car lot; a small business owner; a potential witness who knows the car salesman; a friend or family member of the client?s. In addition to building characters and improvisation skills, theatre students will reflect on their experience within a legal training situation, discussing the role of dramatic improvisation in learning to be more critical citizens and understanding how their individual rights always exist in relationship and in negotiation with others. No prior knowledge of the law is needed to register for the class.

TH 4115 Intermediate Playwriting
3 credit(s); prereq 3115 or [writing sample, instr consent]; Instructor: Obolensky, Kira
Description: Co-taught by Kira Obolensky and Lisa Channer. This intermediate writer?s workshop will provide a supportive and stimulating environment in which writers, directors and actors can develop both playwriting and critical skills. Suitable for students who have written in other mediums, as well as theatre students who have participated in the creation of new plays, this class will explore various ways of play-making: from linear, plot-driven scripts, to work that develops its own logic, to plays specifically exploring the Joint Stock Method, a way of collaborating on large-scale production by sharing responsibilities for research and writing. The class is ideal for students willing to experiment and collaborate. Among other sources of inspiration, we will explore the Sumerian epic poem, Gilgamesh. Everyone will participate in writing, performing and interpreting. Each class will contain discussion and analysis of existing works from the ?theatrical canon?; writing exercises; and in-class discussion of our work in progress. The class will address various topics, among them: script as a map; the well-made play and other valid theatrical experiences; and quickness and lightness. Because of the semester?s focus on the creation of a group play, we will spend time studying other well-known plays created in this method by such writers and directors as STITI Company, David Hare and Caryl Churchill.

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: Diercks, Shirley V
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.

TH 4322 Acting for the Camera
3 credit(s); prereq 3101 or 3321; Instructor: Parks, Sonja
Description: This is a valuable course to help the actor/student interested in film, to find, through varied assignments their adaptability to the camera. The participant should be prepared to be on--camera most class days. We will assign storytelling, editorial presentation, industrial exercises, and finally performance in a short film scene with full preparation as to memory, scenic design and props, appropriate lighting and setting. There will be a crew of students to assist the Professor and TA in these productions. All will be followed by the student participation in the editing process of their own work. Welcome to the world of the camera Shirley Venard
Grading: 10% reports/papers, 10% quizzes, 60% in-class presentation, 20% class participation. "It is unnecessary to give a percentage amount to 'attendance' as none of the above percentages will be possible if you are not there."
Exam Format: Quizzes and then a final paper to serve as an exam.

TH 4390 Creative Collaboration
1-3 credit(s), max credits 12, 4 completions allowed; prereq Audition, interview, instr consent;
Instructor: STAFF
Description: Creative Collaboration students will explore multi-disciplinary creation and community building theater techniques while working together to create an original performance. The class will be led by Maren Ward of Bedlam Theatre, an experimental community based theater located on the West Bank. Well versed in creative collaboration, the Bedlam company has produced a wide range of exciting work including Teminus - a sci-fi extravaganza with revolving cardboard spaceship surrounding the audience, Unhinged - a feminist horror show, and the annual Barebones Halloween Show - a community created outdoor nighttime spectacle of larger than life puppets, originally composed live music, theater, dance and pyrotechnics. Bedlam's most recent hit, conceived and directed by Ms. Ward, was West Bank Story - an original musical about the West Bank neighborhood. The collaboration class will be following up on some of the connections made during this project and creating a new community based, site-specific performance. Students will have an opportunity to engage in an artistic dialogue with students and guest speakers from the following courses: Place, Politics and Memory (geography), Urban Design, Arts and Social Engagement (visual arts) and Performance and Social Change - (theater arts)

TH 4395 BFA Intensive III
A-F only, 2 credit(s); prereq BFA-acting sr;
Instructor: STAFF
Description: BFA Core Component

TH 4398 BFA Rehearsal and Performance V
A-F only, 2 credit(s); prereq BFA-acting sr;
Instructor: STAFF
Description: BFA Core Component

TH 4399 BFA Rehearsal and Performance VI
A-F only, 2 credit(s); prereq BFA-acting sr;
Instructor: STAFF
Description: BFA Core Component
TH 4532 Makeup for the Actor
2 credit(s);
Instructor: Bundick, Theresa Jane
Description: Student may contact the instructor or department for information.

TH 4901 Senior Seminar
S-N only, 2 credit(s); prereq Sr, [Th or Dnce major]; Credit will not be granted if credit has been received for: DNCE 4901;
Instructor: Seifert, Luverne G
Description: Student may contact the instructor or department for information.

TH 4905H Honors: Tutorial Seminar in Theatre Arts
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed; prereq q-4905; honors, theatre arts, dept consent; limit [2 cr for [cum laude or magna cum laude], 4 cr for summa cum laude];
Instructor: STAFF
Description: Individual creative projects in production of approved plays as an actor, director, dramaturg or playwright.

TH 5100 Theatre Practicum
1-4 credit(s), max credits 20, 10 completions allowed; prereq instr consent, dept consent; 4 cr of 3100 for undergrads;
Instructor: STAFF
Description: Individual creative projects in production of approved plays as an actor, director, dramaturg or playwright.

TH 5150 Design Composition and Collaboration
3 credit(s); prereq grad or 3515, 3711, instr consent;
Instructor: Lefebvre, Mathew James
Description: Student may contact the instructor or department for information.

TH 5151 Design Composition and Collaboration
3 credit(s); prereq grad or 3515, 3711, instr consent;
Instructor: Seifert, Luverne G
Description: Student may contact the instructor or department for information.

TH 5155 Video Production Design and Aesthetics
3 credit(s); prereq 4553 or instr consent;
Instructor: Gwinup, Martin Bruce
Description: Students may contact the instructor or department for information.

TH 5177 Performance and Social Change
A-F only, 3 credit(s); prereq Jr or sr or grad student;
Instructor: Kuftinec, Sonja
Description: TH 5177 Performance and Social Change will explore the "red" and "green" roots of May Day through readings, reflections, and activations of political theatre, ceremony, ritual, ecodrama and their associated histories and theories. Students will learn about the conditions that produce various forms of theatre as modes of political action and their effectiveness in addressing social justice and creating sustainable communities. Working with Sandy Spieler and In the Heart of the Beast Puppet and Mask Theatre, the class culminates with the collaborative creation of a "ceremony" to be performed at the annual May Day Parade in Powderhorn Park. Students are additionally invited to participate in community organizing and brainstorming and to help with the construction of puppets and masks.
Style: 10% Lecture, 25% Discussion, 25% Small Group Activities, 25% Student Presentation, 15% Demonstration. performance workshops. As embodied learning exemplifies the pedagogical approach of this activist course, students will research contemporary, local and historical projects as well as create their own.
Grading: 25% reports/papers, 25% special projects, 25% in-class presentation, 25% class participation.

TH 5330 Comedy: Advanced Physical Performance Studio
A-F only, 3 credit(s); prereq 3331, instr consent;
Instructor: Rosen, Robert S
Description: Student may contact the instructor or department for information.

TH 5500 Theatre Design Practicum
1-3 credit(s), max credits 20, 10 completions allowed; prereq 3515, instr consent, dept consent;
Instructor: STAFF
Description: Individual projects in production of approved plays as a designer for scenery/properties, costumes, lighting or sound.
Style: 100% Laboratory.
Grading: 100% other evaluation. final production and prep work

TH 5510 Drawing, Rendering, and Painting for the Theatre Designer I
3 credit(s); prereq 3515 or grad or instr consent;
Instructor: Lefebvre, Mathew James
Description: This course is designed to help students of theatre and performance develop a basic visual vocabulary necessary to create set, light and costume designs. Much of the work in this course is directed to honing skills of seeing and representational drawing and painting. Students will experience a series of exercises that stress the importance of line and the use of value as a means of creating a three-dimensional object on the blank page. In the last weeks of the course, students will work to apply visual styles to create visual sketches appropriate for interpretative performances. Previous experience is not necessary but the only prerequisite is a willingness to challenge your perception skills coupled with the overall desire to further develop visual literacy.

TH 5515 Design Composition and Collaboration
3 credit(s); prereq grad or 3515, 3711, instr consent;
Instructor: Lefebvre, Mathew James
Description: Student may contact the instructor or department for information.

TH 5570 Properties/Scenery Technology
1-3 credit(s), max credits 15, 15 completions allowed; prereq 3515 or grad or instr consent;
Instructor: Farrell, Faith Ann
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.

TH 5570 Properties/Scenery Technology
1-3 credit(s), max credits 15, 15 completions 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.

TH 5570 Properties/Scenery Technology
1-3 credit(s), max credits 15, 15 completions 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.

TH 5832 Drawing, Rendering, and Painting for the Theatre Designer II
3 credit(s); prereq 3515 or grad or instr consent;
Instructor: Lefebvre, Mathew James
Description: This course is designed to help students of theatre
TH 5580 Costume Technology
3 credit(s), max credits 15, 5 completions allowed; prereq 3515 or grad or instr consent;
Instructor: Binder-Pettigrew, Susan M
Description: Students will gain working knowledge of pattern making using a technique where in a pattern is achieved by draping and manipulating fabric directly on a dressmaker's form.

TH 5590 Theatre Technology Practicum
1-3 credit(s), max credits 15, 15 completions allowed; prereq 3515, instr consent, dept consent; 4 cr max for undergrads;
Instructor: STAFF
Description: Individual creative projects in the technology or craft areas of theatre that further practical skills or knowledge in the fields of costume, lighting, makeup, props, scenery, sound, or theatre management.

TH 5711 Advanced Stage Direction
3 credit(s); prereq [4711, instr. consent] or grad student;
Instructor: Bellamy, Louis Richard
Description: Students may contact the instructor or department for information.

TH 5760 Advanced Stage Management
2-3 credit(s), max credits 3, 1 completion allowed; prereq 5716 or concurrent enrollment 5716, instr consent; [4 cr max for undergrads];
Instructor: Swartwout, Christine M
Description: Students may contact the instructor or department for information.

TH 5780 Advanced Topics in Arts Management
2-4 credit(s), max credits 8, 4 completions allowed; prereq 5718;
Instructor: Horejsi, Brooke
Description: Students may contact the instructor or department for information.

TH 5950 Topics in Theatre: Sanskrit Drama in Early and Modern India
3 credit(s), max credits 20, 20 completions allowed;
Instructor: Sawhney, Simona
Description: Students may contact the instructor or department for information.

TH 5950 Topics in Theatre: Lighting Communication
3 credit(s), max credits 20, 20 completions allowed;
Instructor: Dillard, Marcus F
Description: Students may contact the instructor or department for information.

TH 5993 Directed Study
1-5 credit(s), max credits 20, 20 completions allowed; prereq 6 Th cr, instr consent, dept consent, college consent;
Instructor: STAFF
Description: Guided individual reading or study.

TH 8114 History and Theory of Western Theatre: Enlightenment Through Naturalism
3 credit(s);
Instructor: Werry, Margaret L
Description: Students may contact the instructor or department for information.

TH 8120 Seminar
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Kobialka, Michal A
Description: Students may contact the instructor or department for information.

TH 8950 Topics in Theatre: Design: Professional Development Workshop
1 credit(s), max credits 8;
Instructor: Lefebvre, Mathew James
Description: Students may contact the instructor or department for information.

TH 8950 Topics in Theatre: Theatre Pedagogy & Professionalization
1 credit(s), max credits 8;
Instructor: Werry, Margaret L
Description: Students may contact the instructor or department for information.

Toxicology
244 Veterinary Diagnostic Lab

TXCL 5000 Directed Research in Toxicology
A-F only, 1-4 credit(s), max credits 16, 16 completions allowed; prereq instr consent;
Instructor: Murphy, Michael J
Description: Students may contact the instructor or department for information.

TXCL 5545 Introduction to Regulatory Medicine
A-F only, 2 credit(s); prereq Grad student or instr consent; Credit will not be granted if credit has been received for: CVM 6545;
Instructor: Murphy, Mathew J
Description: Students may contact the instructor or department for information.

Translation and Interpreting
101 Wesbrook Hall

TRIN 3001 Introduction to Translation
3 credit(s); prereq Bilingual proficiency in [English, second language of instruction];
Instructor: STAFF
Description: An introductory course in translation oriented toward the translation of documents written in English into the languages of non-English-speaking residents of our communities. The course includes both theory and supervised practice. As an exercise in re-expressing meaning in a second language, the course provides a solid basis for training in interpreting, as well as for translation.

TRIN 3002 Intermediate Translation
3 credit(s); prereq 3001;
Instructor: Giannini, Claudia A
Description: This course is aimed at strengthening and further developing the linguistic principles and translation strategies acquired in the Introduction to Translation course (TRIN 3001). Students will tackle the exegesis (semantic analysis) and translation of challenging texts, both general and specialized (e.g. medical, social services, legal). The course is focused mainly on medical texts, but students? interests will be considered for the final choice of translation materials. Some principles of comparative stylistics will be presented and applied to actual texts. Students will analyze and/or practice some of the different types of work translators can do: translation, editing, proofreading, project management, quality control, localization, document review, and cultural analysis.
Style: 20% Lecture, 40% Discussion, 25% Small Group
Activities, 5% Student Presentation, 5% Demonstration, 5% Guest Speakers. Seminar-type discussions will be the basis of the course.

Grading: 15% mid exam, 20% final exam, 15% special projects, 20% written homework, 5% in-class presentation, 25% class participation. Class participation (discussion of reading materials/translation assignments) will amount to one quarter of the final grade; attendance is therefore very important. Written homework refers to translation assignments.

TRIN 3101 Introduction to Interpreting
3 credit(s); prereq high level of proficiency in spoken English and another language; 3001 recommended; Instructor: STAFF
Description: A practical and theoretical introduction to interpreting in health, human service, and legal settings. Emphasis on understanding the unique role of the interpreter, current models and modes of interpreting, ethical issues and professional standards of practice, and developing skills in understanding and analyzing spoken language.

TRIN 3012 Consecutive Interpreting
3 credit(s); prereq 3101, high level of proficiency in [spoken English, another language]; Instructor: Carey, Kathleen T
Description: Student may contact the instructor or department for information.

TRIN 4201 Interpreting in Health Care Settings
A-F only, 3 credit(s); prereq 1201, 3102; Instructor: McCaill, Silvia Elena
Description: Student may contact the instructor or department for information.

TRIN 4301 Interpreting in Legal Settings
A-F only, 3 credit(s); prereq 1301, 3102; Instructor: Gonzalez, M Graciela E
Description: Student may contact the instructor or department for information.

TRIN 5993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed; Instructor: Downing, Bruce T
Description: Student may contact the instructor or department for information.

UC 3201 Web Designer Introduction
4 credit(s); Instructor: Husom, David Harold
Description: See and learn the Web design process by mastering the four phase process of site development: plan, design, produce and publish. Learn design principles, business practices and site analysis. Use industry standard Web design software including Adobe Photoshop, Dreamweaver and Flash to build your own Website. Also get a firm foundation in HTML and CSS. The class includes lectures, exercises, and lab time in a small, hands-on class. No prerequisites or previous experience required. Course notes will be available at the Coffman Bookstore.
Style: 10% Lecture, 10% Discussion, 50% Laboratory, 5% Student Presentation, 25% Demonstration.
Grading: 75% special projects, 10% quizzes, 5% in-class presentation, 10% class participation. Students create a Web site for a final project

TURK 1002 Beginning Turkish II
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: TURK 4002; Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 3002 Intermediate Turkish II
5 credit(s); prereq 3001 or instr consent; Credit will not be granted if credit has been received for: TURK 4004; Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 3900 Topics in Turkish Language, Literature, and Culture
1-4 credit(s), max credits 12, 3 completions allowed; Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 4002 Beginning Turkish II
3 credit(s); prereq [4001, 4th sem course in another language] or grad student; Credit will not be granted if credit has been received for: TURK 1002; Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 4004 Intermediate Turkish II
3 credit(s); prereq [4003, 4th semester course in another language] or grad student; Credit will not be granted if credit has been received for: TURK 3002; Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 5900 Topics in Turkish Language, Literature, and Culture
1-4 credit(s), max credits 12, 3 completions allowed; Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

Philosophy
University College
20 Classroom Office Building

UC 3201 Web Designer Introduction
4 credit(s); Instructor: Husom, David Harold
Description: See and learn the Web design process by mastering the four phase process of site development: plan, design, produce and publish. Learn design principles, business practices and site analysis. Use industry standard Web design software including Adobe Photoshop, Dreamweaver and Flash to build your own Website. Also get a firm foundation in HTML and CSS. The class includes lectures, exercises, and lab time in a small, hands-on class. No prerequisites or previous experience required. Course notes will be available at the Coffman Bookstore.
Style: 10% Lecture, 10% Discussion, 50% Laboratory, 5% Student Presentation, 25% Demonstration.
Grading: 75% special projects, 10% quizzes, 5% in-class presentation, 10% class participation. Students create a Web site for a final project

Turkish
214 Nolte Center

TURK 1002 Beginning Turkish II
5 credit(s); prereq 1001; Credit will not be granted if credit has been received for: TURK 4002; Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 3002 Intermediate Turkish II
5 credit(s); prereq 3001 or instr consent; Credit will not be granted if credit has been received for: TURK 4004; Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

TURK 3900 Topics in Turkish Language, Literature, and Culture
1-4 credit(s), max credits 12, 3 completions allowed; Instructor: Colak, Zuleyha
Description: Student may contact the instructor or department for information.

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. Three project modules with videos, internet mapping projects, and fieldwork, demonstrate concepts-interactively. This is a writing intensive course (3 cr.). Taught fall and spring.
Style: 60% Lecture, 10% Film/Video, 10% Discussion, 5% Small Group Activities, 5% Guest Speakers. Per Semester:

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
URBS 3001 W 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. Three project modules with videos, internet mapping projects, and fieldwork, demonstrate concepts-interactively. This is a writing intensive course (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 computer mapping.
Grading: 30% final exam, 30% reports/papers, 30% special projects, 10% other evaluation. Other Evaluation: In class discussion/small group activities
Exam Format: Blue Book-Essay Format

URBS 3002 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 completions allowed; Instructor: Pentel, Paula R
Description: Sec 002 Financing Affordable Housing 06:00 P.M. - 08:00 P.M., T (01/22/2008 - 03/16/2008), 1 credit. This course will focus on municipal and state approaches to affordable housing development, preservation, and finance. Technical, monetary, and ideological perspectives of the public sector and its for- and non-profit partners will be explored, as will the attitudes and tendencies of the communities they serve. The class will include introductions to the financing programs so critical to these efforts. Case studies on agency budgeting, trends, and programmatic approaches will be used and analyzed. Jonathan Stanley, a graduate of the Urban Studies Program, earned an MA in Urban and Regional Planning from the University of Pennsylvania, and worked in affordable housing at the New York City Department of Housing Preservation & Development (HPD). He now works for Minnesota Housing, one of the major sources of financing for affordable housing.

URBS 3003 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 completions allowed; Instructor: Pentel, Paula R
Description: Sec 003 Creating the Public Good 06:00 P.M. - 08:00 P.M., Th (01/22/2008 - 03/16/2008), 1 credit. What are nonprofits, and why do they exist? What role do foundations and corporate giving programs play in the ecology of the local community? What strategies can be employed to direct public opinion, and influence decision makers? Such questions will be explored in this colloquium. Students will use case studies to explore what it takes to write a successful grant proposal, how public opinion can be shaped, and the elements of grassroots campaigning. Tom Trow consults for nonprofit organizations in the areas of community relations, media relations, legislative relations and organizational planning. Formerly Director of Community and Cultural Affairs for CLA, he has co-founded 4 nonprofits and served on the Board of Directors of many more. He is currently creating documentary programs in partnerships between Minnesota nonprofits and Twin Cities Public Television.

URBS 3500 Urban Studies Workshop
A-F only, 3 credit(s), max credits 9, 3 completions allowed; prereq instr consent;
Instructor: STAFF
Description: URBS 3500 Urban Studies Workshops sec -001 Revitalization: Planning and Implementation, 06:30 P.M. - 09:30 P.M. M (01/22/2008 - 05/09/2008), 3 credits This workshop examines what it takes to revitalize neighborhoods or commercial areas in disadvantaged communities. This is a daunting challenge because of the multiple and inter-related dynamic factors that perpetuate the disadvantaged condition. As a class, we will work to understand the nature of that challenge, and we will explore and discuss a toolkit of analytical methods, development and business strategies, and organizational approaches that can be instrumental in overcoming barriers and fostering positive change. Students will develop a case study that examines a successful revitalization process, and identifies the planning and implementation elements that were most pivotal in that process. Tom Leighton, AICP is a principal planner with the city of Minneapolis. sec -002 Urban Real Estate Development: Fundamentals, Process and Outcome 06:00 P.M. - 09:00 P.M., W (01/22/2008 - 05/09/2008), Bleght 240 , TCWESTBANK, 3 credits This course will (1) explore and explain disparate disciplines that interact with and depend on each other in urban real estate development while (2) explaining development itself as a holistic, ecological process and profession. The class will first explore the fundamental disciplines involved in the urban real estate development process, including budgeting and finance, property management and asset management. Then the course will examine these fundamentals in simulated real estate developments in a chosen Twin Cities neighborhood. The class will have a chance to explore high profile, ongoing Twin Cities? development(s) through site visit(s). Students must have or be willing to develop a basic comfort with spreadsheets (Microsoft Excel), and must be open to learning about financial analysis, a critical fundamental language of urban development. Pat Connolly is a housing specialist for CommonBond Housing, and is now the director of housing development for Lutheran Social Services.

URBS 3751 Understanding the Urban Environment
A-F only, 3 credit(s); Meets CLE req of Environment Theme;
Instructor: Pentel, Paula R
Description: Where is nature in the city? Ecological function? Students will examine links between cities and the environment with an emphasis on air, soil, water, pollution, parks, public space, sustainability, and environmental justice, among others. We will examine the interplay of the environment, technology, scientific knowledge, and culture/politics in this wide-ranging course. Students are required to complete one field trip. Ms Pentel is a City Council member for the City of Golden Valley and a PhD candidate in Geography.
Style: 50% Lecture, 25% Discussion.
Grading: 25% final exam, 10% reports/papers, 40% quizzes, 5% in-class presentation, 10% class participation, 10% other evaluation. Fieldtrip reaction paper
Exam Format: multiple choice and short answer

URBS 3771 Fundamentals of Transit
A-F only, 3 credit(s);
Instructor: Pentel, Paula R
Description: Transportation is a fundamental characteristic of urban systems. Participation in the variety of activities available in the urban environment requires movement; transportation...
provides the means to move from one place to another. Urban transit, as one of the forms of urban transportation, has unique characteristics that need to be understood by the urban planner. This course is not simply a justification for transit. This course will focus on all aspects of the delivery of transit services, including funding, service planning, facility design and implementation. Special emphasis will be placed on the types of transit services available and matching services to the market. This includes regular route bus, heavy rail, light rail, commuter rail, bus rapid transit, personal rapid transit, and demand responsive services. While there will be extensive discussion of the Twin Cities, students will be exposed to a variety of transit services and technologies not available in the Twin Cities.

**URBS 3900 Urban Studies Internship Seminar**
A-F only, 2 credit(s), max credits 4; prereq Sr, internship placement, dept consent, instr consent;

*Instructor:* Pentel, Paula R

*Description:* This weekly seminar integrates a student’s internship experience with their academic program. This course is appropriate for any student completing an internship that has an urban focus. Students must have their internships secured prior to the beginning of the term, and must speak to Paula Pentel prior to registering. The course has five short assignments designed to have the students reflect critically on their internship experience. Additionally a journal is required. Class discussions are held around the assignments and some are student-led discussions.

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

**URBS 3955W Senior Paper Seminar**
A-F only, 2 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive;

*Instructor:* Pentel, Paula R

*Description:* This seminar is intended for urban studies seniors who are undertaking their senior papers. Methods and resources for research will be the focus and significant writing will be expected. Students will share experiences, work on drafts, and should expect to have a first draft completed well before the term. Students should have a paper proposal ready before taking the class (paragraph describing the paper) Judith Martin

**URBS 3955W Senior Paper Seminar**
A-F only, 2 credit(s); prereq dept consent ; Meets CLE req of Writing Intensive;

*Instructor:* Kayzar, Brenda

*Description:* This seminar is intended for urban studies seniors who are undertaking their senior papers. Methods and resources for research will be the focus and significant writing will be expected. Students will share experiences, work on drafts, and should expect to have a first draft completed well before the term. Students should have a paper proposal ready before taking the class (paragraph describing the paper) Judith Martin

**URBS 3993 Urban Studies Directed Study**
A-F only, 2-3 credit(s), max credits 6; 3 completions allowed; prereq UrbS majors, instr consent, dept consent;

*Instructor:* STAFF

*Description:* For students with a specific educational objective that cannot be satisfied through regular curriculum (e.g., foreign study) and for honors students to complete an honors opportunity.

**URBS 5101 The City and the Metropolis: An Exploration**
A-F only, 3 credit(s); prereq Grad student or [adv UrbS undergrad, instr consent ];

*Instructor:* Martin, Judith A

*Description:* Are cities more than places with relationships between buildings and locations? Are they more than an economic nexus? What do we need to live in any city? Who are the city’s people? How does it all “work”? What is “suburban and what is “metropolitan”? These questions and more will be tackled in this class, which aims to explore the diverse experiences of U.S. (and other) cities and metropolitan areas. We will rely on classic and contemporary readings, fieldwork and cultural experiences to broaden and deepen students’ perspectives about these issues. A research paper, or substantial alternative project, will be expected.

*Style:* Lecture/Dialogue

*Grading:* 100% reports/papers.

---

**Veterinary & Biomedical Sciences**

**VBS 2032 General Microbiology with Laboratory**
4 credit(s); prereq [CHEM 1011, one semester college biology] or instr consent, primarily for non-microbiology majors; Credit will not be granted if credit has been received for: MIBC 3301;

*Instructor:* Johnson, Timothy J

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

**URDU 3132 Intermediate Urdu**
5 credit(s); prereq 3131 or instr consent;

*Instructor:* Latif, Riyaz

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

**URDU 4004 Intermediate Urdu**
3 credit(s); prereq 3131 or 4003;

*Instructor:* 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, G.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, G.S.

*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:* Lowum, Susan E

*Description:* Student may contact the instructor or department for information.
### VMED 5080 Problems in Veterinary Epidemiology and Public Health
- **A-F only, 1-3 credit(s), max credits 3, 1 completion allowed**;
- **Instructor**: Bender, Jeff Blaine
- **Description**: Student may contact the instructor or department for information.

### VMED 5093 Directed Studies in Population Medicine
- **A-F only, 1-4 credit(s), max credits 8; prereq Grad student, instr consent**;
- **Instructor**: Goyal, Sagar M
- **Description**: Student may contact the instructor or department for information.

### VMED 5211 Advanced Large Animal Physiology II
- **A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent; 5210 recommended**;
- **Instructor**: Malone, Erin
- **Description**: Student may contact the instructor or department for information.

### VMED 5232 Comparative Clinical Veterinary Dermatologic Pathology
- **S-N only, 1 credit(s), max credits 2; prereq DVM degree or foreign equiv**;
- **Instructor**: Torres, Sheila Mello
- **Description**: Student may contact the instructor or department for information.

### VMED 5243 Advanced Small Animal Pathobiology IV
- **A-F only, 1 credit(s); prereq CVM grad student, [DVM or foreign equiv] degree**;
- **Instructor**: Patterson DVM, Ned
- **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 completions allowed; prereq VMed grad student, possess DVM**;
- **Instructor**: Valberg, Stephanie J
- **Description**: Student may contact the instructor or department for information.

### VMED 5310 Topics in Veterinary Clinical Pathology
- **S-N only, 1 credit(s), max credits 2; prereq Grad student in CVM**;
- **Instructor**: Sharkey, Leslie Carol
- **Description**: Student may contact the instructor or department for information.

### VMED 5330 Veterinary Descriptive Histopathology
- **1 credit(s), max credits 2; prereq Grad student in VMED or [CMB, [DVM degree or foreign equiv]] or instr consent**;
- **Instructor**: Armien, Anibal Guillermo
- **Description**: Student may contact the instructor or department for information.

### VMED 5380 Veterinary Diagnostic and Comparative Pathology
- **A-F only, 2 credit(s), max credits 4; prereq [DVM/VMD or equiv degree] from a foreign institution, [resident or grad student] in [veterinary anatomic or clinical pathology], instr consent**;
- **Instructor**: O'Brien, Timothy David
- **Description**: Student may contact the instructor or department for information.

### VMED 5395 Problems in Veterinary and Comparative Pathology
- **A-F only, 3 credit(s); prereq Grad student in CVM, [DVM degree or foreign equiv]**;
- **Instructor**: O'Brien, Timothy David
- **Description**: Student may contact the instructor or department for information.

### VMED 5420 Molecular Epidemiology of Infectious Disease
- **A-F only, 3 credit(s); prereq Basic course in microbiology**;
- **Instructor**: Sreevatsan, Srinand
- **Description**: Student may contact the instructor or department for information.

### VMED 5493 Directed Studies in Infectious Disease
- **A-F only, 1-4 credit(s), max credits 8; prereq Grad student, instr consent**;
- **Instructor**: Dee, Scott Allen
- **Description**: Student may contact the instructor or department for information.

### VMED 5496 Training in Swine Production and Management
- **S-N only, 4 credit(s); prereq VMED grad student or instr consent**;
- **Instructor**: Dee, Scott Allen
- **Description**: Student may contact the instructor or department for information.

### VMED 5670 Bovine Surgery Practicum
- **S-N only, 2 credit(s); prereq [VMed grad student, [DVM or equiv foreign degree]] or instr consent**;
- **Instructor**: Malone, Erin
- **Description**: Student may contact the instructor or department for information.

### VMED 5910 Grant Writing: What Makes a Winning Proposal?
- **S-N only, 1 credit(s); Credit will not be granted if credit has been received for: CMB 5910**;
- **Instructor**: Matchett, Karin Elizabeth
- **Description**: Student may contact the instructor or department for information.

### VMED 6201 Advanced Small Animal Veterinary Medicine
- **A-F only, 1-5 credit(s), max credits 5, 1 completion allowed; prereq instr consent**;
- **Instructor**: Polzin, David J
- **Description**: Student may contact the instructor or department for information.

### VMED 6202 Internal Medicine in Small Companion Animals
- **A-F only, 1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent**;
- **Instructor**: Polzin, David J
- **Description**: Student may contact the instructor or department for information.

### VMED 6203 Advanced Diagnosis and Therapeutics of Animal Disease
- **A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; prereq instr consent**;
- **Instructor**: Osborne, Carl A
- **Description**: Student may contact the instructor or department for information.

### VMED 8201 Seminar: Veterinary Medicine
- **1 credit(s); prereq instr consent**;
- **Instructor**: Polzin, David J
- **Description**: Student may contact the instructor or department for information.

### VMED 8220 Advanced Nephrology/Urology Clinics
- **1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent**;
- **Instructor**: Polzin, David J
- **Description**: Student may contact the instructor or department for information.

### VMED 8230 Medical Conference
VMED 8593 Advanced Veterinary Virology and Serology  
1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Joo,Han Soo  
Description: The course is designed to give lectures on  
selected topics and to discuss the principle and application of  
different laboratory techniques that are commonly used in clinical  
virology and serology research. Students will have opportunities  
to practice various laboratory techniques. We will meet once a  
week for 3-4 hours with instructor. During the course, instructors  
may distribute research papers related to the topics. Evaluation  
will be largely based on active participation in the discussion and  
home works. An oral presentation on a selected topic will be  
assigned to each student.  
Style: 30% Lecture, 60% Laboratory, 10% Student Presentation.  
Grading: 20% written homework, 10% attendance, 20% in-class  
presentation, 20% class participation, 30% laboratory evaluation.  

VMED 8682 Advanced Large Animal Surgery  
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Polzin,David J  
Description: Student may contact the instructor or department  
for information.  

VMED 8691 Research in Large Animal Surgery  
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;  
Instructor: Malone,Erin  
Description: Student may contact the instructor or department  
for information.  

VMED 8692 Seminar: Small Animal Surgery  
A-F only, 1 credit(s);  
Instructor: Pluhar,Liz  
Description: Student may contact the instructor or department  
for information.  

VMED 8693 Seminar: Large Animal Surgery  
A-F only, 1 credit(s);  
Instructor: Malone,Erin  
Description: Student may contact the instructor or department  
for information.  

VMED 8694 Research in Small Animal Surgery  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Pluhar,Liz  
Description: Student may contact the instructor or department  
for information.  

VMED 8789 Research in Avian Clinical Problems and  
Procedures  
A-F only, 1-3 credit(s), max credits 3, 1 completion allowed;  
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 completion allowed;  
Instructor: Malone,Erin  
Description: Student may contact the instructor or department  
for information.  

VMED 8792 Seminar: Veterinary Radiology  
1 credit(s), max credits 6, 6 completions 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 completion allowed;  
Instructor: Feeney,Daniel A  
Description: Student may contact the instructor or department  
for information.  

VMED 8794 Research in Veterinary Radiology  
1-3 credit(s), max credits 3, 1 completion 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 completions 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 completion allowed;
prereq courses in vet anesth, vet small animal orthopedics;
Instructor: Redig, Patrick Thomas
Description: Student may contact the instructor or department for information.

VRS 5101 Water Policy
3 credit(s); prereq Grad student or instr consent;
Instructor: Swackhammer, Deborah L
Description: Student may contact the instructor or department for information.

VRS 8050 Special Topics in Water Resources Science
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Nunnally, Patrick
Description: Student may contact the instructor or department for information.

VRS 8100 Interdisciplinary Seminar in Water Resources
0.5-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Nieber, John Little
Description: Student may contact the instructor or department for information.

VRS 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: Brown, Erik Thorson
Description: Student may contact the instructor or department for information.

WRS 5851 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
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.

VPM 4131 Immunology
3 credit(s); Credit will not be granted if credit has been received for: MICB 4131;
Instructor: Molitor, Thomas William
Description: Student may contact the instructor or department for information.

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.

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.

VPM 4131 Immunology
3 credit(s); Credit will not be granted if credit has been received for: MICB 4131;
Instructor: Molitor, Thomas William
Description: Student may contact the instructor or department for information.

Work and Human Resource Education
330 Wulling Hall

WHRE 3105 Introduction to Strategic Planning Through Human Resources
A-F only, 3 credit(s); prereq 3001;
Instructor: Bialek, Tani Keenlyne
Description: Student may contact the instructor or department for information.

WHRE 5121 Principles of Supervisory Management
3 credit(s);
Instructor: Bialek, Tani Keenlyne
Description: Student may contact the instructor or department for information.

WHRE 5351 Methods for Change in Developing Countries
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: AFEE 5351;
Instructor: Amenune, Felix K.
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: Stiertz EdD, Tom
Description: Student may contact the instructor or department for information.

WHRE 5698 Teaching Internship
3-8 credit(s), max credits 8, 1 completion allowed; prereq Admission to Initial licensure program; Credit will not be granted if credit has been received for: AFEE 5698;
Instructor: Cudworth, Rachel Beth
Description: Student may contact the instructor or department for information.

WHRE 5699 Teaching Internship: Extended
1 credit(s); prereq 5688; Credit will not be granted if credit has been received for: CI 5927;
Instructor: Stiertz EdD, Tom
Description: Student may contact the instructor or department for information.

WHRE 5699 Teaching Internship: Extended
1 credit(s); prereq 5688; Credit will not be granted if credit has been received for: CI 5927;
Instructor: Cudworth, Rachel Beth
Description: Student may contact the instructor or department for information.

WHRE 5901 Using Research in Work and Human Resource Education

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
3 credit(s);
Instructor: Twohig,Catherine Carol
Description: Student may contact the instructor or department for information.

WHRE 5993 Directed Study in WHRE
1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Twohig,Catherine Carol
Description: Student may contact the instructor or department for information.

WHRE 8001 Advanced Theory in Human Resource Development and Adult Education
A-F only, 3 credit(s); prereq 5001 or AdEd 5001;
Instructor: Bartlett,Kenneth Russell
Description: Student may contact the instructor or department for information.

WHRE 8141 Foundations of Work and Human Resource Education
3 credit(s);
Instructor: Bartlett,Kenneth Russell
Description: Student may contact the instructor or department for information.

WHRE 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.

WHRE 8915 Ethics and Responsible Research
A-F only, 1 credit(s);
Instructor: Brown PhD,James M
Description: Student may contact the instructor or department for information.

WHRE 8990 Research Seminar
S-N only, 1 credit(s), max credits 6, 6 completions 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.

WRIT 1201 Writing Studio
A-F only, 4 credit(s); prereq Placement in WRIT 1201; Credit will not be granted if credit has been received for: PSTL 1421;
Instructor: STAFF
Description: WRIT 1201 introduces students to general writing strategies encountered at the college level. Through frequent practice and feedback, students learn to see writing as a tool for learning and a vehicle for expression of ideas and informed views. Students also learn a working vocabulary for discussing writing. Typical assignments include informal writing derived from personal experience, response to readings, analysis and evaluation of sources on the web and in print, and formal papers that increasingly make use of sources as well as close reading of texts. The course emphasizes the active practice of writing, from gathering ideas for a paper, through the drafting of papers, to careful editing. Many sections meet in computer classrooms. Some sections are designated for non-native speakers and are joined to other learning community courses. This course does NOT meet the first-year writing requirement.
Style: 10% Lecture, 15% Discussion. instructor-directed practice of writing related to papers
Grading: 80% reports/papers, 20% class participation.
Percentages may vary slightly by section. Class participation includes required in-class writing

WRIT 1301 University Writing
A-F only, 4 credit(s); prereq Placement in WRIT 1301 credit will not be granted if credit already received for freshman composition courses under the following former designators: ENGC 1011, ENGC 1011H, ENGC 1012, ENGC 1012H, ENGC 1013, ENGC 1013H, ENGC 1014, ENGC 1014H, ENGC 1015, ENGC 1016, RHET 1101; Credit will not be granted if credit has been received for: WRIT 1011;
Instructor: STAFF
Description: WRIT 1301 fulfills the first-year writing requirement. It involves critical reading, writing, and thinking as students practice some of the types of writing they may expect in their college career such as summaries, essays, academic arguments, bibliographies, and papers built on research. The course helps students develop, at a minimum, an approach to writing that relies on clear statement of a thesis and support of that thesis with appropriate sources and documentation. Time is spent discussing rhetorical elements of writing such as audience, purpose, and argumentative structure. Students also practice steps in the writing process such as invention, research, organization of ideas, paper drafting, revision, and editing. Students report, synthesize, and draw conclusions regarding the significance of what they read. Students become more aware of the rhetorical choices available to them and learn to make appropriate choices. Some sections may be taught in computer classroom. Some sections are offered online. Some sections may include a service-learning component.
Style: 10% Lecture, 35% Discussion. Instructor-directed work on writing assignments, including one-to-one conferences.
Grading: 80% reports/papers, 20% class participation.
Percentages may vary slightly by section. Class participation includes required in-class writing

WRIT 1401 Writing and Academic Inquiry
A-F only, 4 credit(s); prereq Placement in WRIT 1401 credit will not be granted if credit already received for freshman composition courses under the following former designators: ENGC 1011, ENGC 1011H, ENGC 1012, ENGC 1012H, ENGC 1013, ENGC 1013H, ENGC 1014, ENGC 1014H, ENGC 1015, ENGC 1016, RHET 1101; Credit will not be granted if credit has been received for: WRIT 1011;
Instructor: STAFF
Description: WRIT 1401 fulfills the first-year writing requirement. It challenges students to think strategically about developing and communicating ideas within different contexts. Students examine increasingly challenging texts as they apply their writing processes, with feedback from the instructor and peers, in order to craft thesis-driven academic analyses and arguments. Students master the concepts of audience, purpose, and context to demonstrate effective communication both for and beyond an academic audience. Classroom activities include discussion of readings, peer review, informal writing assignments. Students craft focused thesis statements that articulate a clearly reasoned position and use credible evidence to support a sustained argument. Through guided practice, students refine their control over focus, organization, style, diction, and grammar, and use the revision process to achieve their writing goals. Students use University libraries to locate, evaluate, and apply scholarly sources. Some sections may focus on writing with and for new media. Some sections may include a service-learning component.
Style: 10% Lecture, 35% Discussion. Instructor-directed work on writing assignments, including one-to-one conferences.
Grading: 80% reports/papers, 20% class participation.
Percentages may vary slightly by section. Class participation includes required in-class writing

WRIT 1512 Writing Studio II
A-F only, 1 credit(s); prereq WRIT 1511 or instr consent;
Instructor: Taniguchi,Yuko
Description: Student may contact the instructor or department for information.

WRIT 3020W Business and Professional Writing
3 credit(s); prereq Daily access to e-mail; Credit will not be granted if credit has been received for: ENGL 3020W; Meets
WRIT 3221W Communication Modes and Methods
4 credit(s); prereq Soph or Jr or Sr or instr consent
Credit will not be granted if the student has already completed
Rhet 3221W; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Berkenkotter, Carol Ann
Description: Students read books and articles, discuss, and write about a major issues in science and technology. Instructors chose different topics which can include: DNA and the Human Genome; Animal/Human interaction; Global Warming; Alternative Energies; Animal / Human Cloning and Stem-Cell Research; Vaccines from Smallpox to AIDS, Why Civilizations Collapse, etc. This course is for non-specialists.

WRIT 3257 Scientific and Technical Presentations
3 credit(s); prereq COMM 1101 or instr consent
Instructor: Graff, Richard J
Description: Students may contact the instructor or department for information.

WRIT 3291 Independent Study
1-3 credit(s); max credits 6; prereq instr consent, dept consent
Instructor: STAFF
Description: Students may contact the instructor or department for information.

WRIT 3029W Business and Professional Writing
3 credit(s); prereq Daily access to e-mail; Credit will not be granted if credit has been received for: ENGL 3029W; Meets CLE req of Writing Intensive;
Instructor: Petrie, Guy Robert
Description: Students may contact the instructor or department for information.

WRIT 3101 Writing Arguments
A-F only, 3 credit(s); prereq credit will not be granted if credit received for: GC 1422, 1423 or 1424;
Instructor: STAFF
Description: Students may contact the instructor or department for information.

WRIT 3108 Gender and Ethnicity and the Rhetoric of Science and Technology
3 credit(s); prereq soph or Jr or Sr or instr consent; Meets CLE req of Cultural Diversity Theme;
Instructor: Wiatrak-Uhlenkott, Mary Jo
Description: Students may contact the instructor or department for information.

WRIT 3152W Writing on Issues of Science and Technology
A-F only, 4 credit(s); prereq 1301 or equiv; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Writing Intensive;
Instructor: Berkenkotter, Carol Ann
Description: Ethical, social, and political challenges created by science/technology. Analyzes persuasion strategies through which experts, political decision-makers, and citizens meet these challenges. Bioscience controversies such as cloning, organ transplantation. Controversies over pollution, ozone depletion.

WRIT 3562W Technical and Professional Writing
A-F only, 4 credit(s); prereq Jr or Sr or instr consent; Meets CLE req of Writing Intensive;
Instructor: STAFF
Description: Students read books, articles, discuss, and write about major issues in science and technology. Instructors choose different topics which can include: DNA and the Human Genome, Animal/Human interaction, Global Warming, Alternative Energies, Animal/Human Cloning and Stem-Cell Research, Vaccines from Smallpox to AIDS, Why Civilizations Collapse, etc. This course is for non-specialists.

WRIT 3371 Technology, Self, and Society
3 credit(s); prereq Soph or Jr or Sr or instr consent; Meets CLE req of Citizenship/Publ Ethics Theme; meets CLE req of Historical Perspective Core;
Instructor: Nichols, Capper
Description: In this course we will study the cultural history of technology, examining the ways machines and technical processes have impinged on and influenced people's lives in the United States over the last two centuries. In the U.S. we have repeatedly re-organized our habits and thinking around new technologies, in an assimilative process most often described as "progress"? a term with mostly positive connotations. Yet deep ambivalence has been a common response to technological advance. A new tool promises us a greater reach but also threatens familiar ways of living and thinking. Since any big technological development thus challenges the values of a culture, part of our work in this course will be to investigate the ethical dilemmas associated with innovation. In an effort to focus the large and unwieldy subject of technology, we will concentrate for much of the semester on three limited but still large categories: transportation, energy, and communication?all three of which have significantly influenced our experience of space and time in North America. Texts will include history, theory, literature, and film. You will be asked to complete all assigned readings, post to the course web log, participate in class discussions, write weekly essays in response to the readings, and give a presentation in class on a particular technology (of your choice).
Style: 30% Lecture, 60% Discussion, 10% Student Presentation.
Grading: 65% reports/papers, 15% in-class presentation, 20% class participation.
Description: Student may contact the instructor or department for information.

WRIT 4501 Usability and Human Factors in Technical Communication
3 credit(s); prereq Jr or sr or grad student or instr consent ;
Instructor: Breuch, Lee-Ann Kastman
Description: Principles/concepts of human factors/usability testing. Developing objectives, criteria, and measures. Conducting tests in lab, field, and virtual environments. Using software programs to analyze qualitative/quantitative data. Lab fee of $36 required for use of the Usability Services Laboratory to conduct usability projects.

WRIT 4662W Writing With Digital Technologies
A-F only, 4 credit(s); prereq Jr or sr or grad student or instr consent ; Meets CLE req of Writing Intensive;
Instructor: Breuch, Lee-Ann Kastman
Description: Writing for the Web. Creating multimedia, hypertext, and Internet documents. Examining linear/nonlinear design, linking, reading/editing online. Exploring interactive Web 2.0 writing technologies such as blogs, wikis, and social media. Projects in Web writing and structured authoring in online collaborative environments
Style: 20% Lecture, 20% Discussion, 20% Laboratory, 20% Small Group Activities, 10% Student Presentation, 10% Web Based.

WRIT 5051 Graduate Research Writing Practice for Non-native Speakers of English
3 credit(s); prereq Grad student;
Instructor: Strain, Kimberly Ann
Description: WRIT 5051 is designed to help you with the types of scholarly writing you need to do in graduate school. The assignments utilize much of the writing you are already doing for coursework, field-specific articles you are reading for your graduate courses, and research you are already conducting to help you write up the work in an acceptable and polished form. The writing areas in this course focus on rhetorical position, definition of audience, presentation of theory, critiquing, and summarizing techniques. For research writing, we practice integrating secondary sources using paraphrasing, quoting, and documentation techniques that are acceptable at a U.S. university. The assignments may include summaries, critiques, abstracts, proposals, and parts of a thesis or dissertation. Particular attention will be given to clarity of grammar, sentence structure, clarity of expression, use of formal, academic language, and other 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 5196 Internship in Scientific and Technical Communication
S-N only, 3-6 credit(s), max credits 6, 1 completion allowed; prereq STC grad or instr consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

WRIT 5291 Independent Study
1-3 credit(s), max credits 3, 1 completion allowed; prereq instr consent, dept consent;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

WRIT 5322 Writing Pedagogy Practicum
S-N only, 1 credit(s), max credits 3, 3 completions allowed; prereq Grad student;
Instructor: Ogden, Mitch
Description: Student may contact the instructor or department for information.

WRIT 5561 Editing and Style for Technical Communicators
A-F only, 3 credit(s); prereq [Grad student, knowledge of grammar/punctuation rules] or instr consent ;
Instructor: STAFF
Description: Editorial process, style, and ethics for technical subjects. Practice editing skills, cohesion, clarity, coherence, organization, and target audiences for print and online documents. Learn about the writer-editor relationship, mark-up language, electronic editing methods, techniques for editing illustrations and Web content, and copyright issues.

WRIT 5561 Editing and Style for Technical Communicators
A-F only, 3 credit(s); prereq [Grad student, knowledge of grammar/punctuation rules] or instr consent ;
Instructor: Horvath, Barbara Ann
Description:

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 8510 Topics in Rhetorical Theory, History, and Criticism
A-F only, 3 credit(s), max credits 12, 4 completions allowed; prereq 5775 or equiv;
Instructor: Ross Jr, Donald

This information is accurate as of 11/3/2009 at 11:00 PM and is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
Description: Student may contact the instructor or department for information.

WRIT 8550 Topics in Technology and Culture
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Gurak,Ph.D.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 identity, literacy, gender, 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.

WRIT 8775 Classical Rhetorical Theory
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Graff,Richard J
Description: Student may contact the instructor or department for information.

WRIT 8792 Directed Readings
S-N only, 1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Ross Jr,Donald
Description: Student may contact the instructor or department for information.

WRIT 8794 Directed Research
S-N only, 1-4 credit(s), max credits 12, 12 completions allowed; prereq instr consent;
Instructor: Ross Jr,Donald
Description: Student may contact the instructor or department for information.

Youth Development and Research
190 Peters Hall

YOST 1001 Seeing Youth, Thinking Youth: Media, Popular Media, and Scholarship
3 credit(s);
Instructor: Baizerman,Michael Leon
Description: This course is our invitation to meet and engage the field of Youth Studies and the Youth Studies Program. By the end of our fifteen weeks together, we expect you to be better able to notice the young people around you in your everyday lives; wonder about them and their lives and worlds; name, describe and analyze what you see and hear, watch, read and look up about youth. And we suspect that while you are doing this, you will also become more attentive to your own everyday life and, indeed, to yourself as a youth. For some of you, this may lead to reflecting on your life's work, on your occupational future and vocational call. This too is encouraged. As always in our Youth Studies Program, this course is about all young people, in Minnesota, in the United States and also internationally. This means that we are attentive to and work hard at including regional as well as all ethnic/racial, social class, geographic, sexual background and communities, as well as those who don't speak English, have a variety of physical and mental capacities, are "ordinary", "normal" and "typical", or are not, as seen by themselves, adults and/or other youth. We are after the full range of young people and the full range of ways they live, are perceived, understood and responded to, directly and indirectly, e.g. in public policy, in shopping malls, at skateboard sites and in music venues, for example. We want you to read newspapers, teen magazines, and adolescent novels and watch television, visit youth venues, and begin to make sense of all of this using scholarly perspectives, theories, concepts and research. We expect that you will spend at least three hours per week (of the nine total hours required for a three credit course) "in the field" in the community watching, talking, being with and assisting teenagers. Along with the three class hours, this leaves three per week to read and write i.e. for making sense of what you learn in class in relation to what you read and what you see and do in the community. The result should be a powerful scholarly experience, at once "practical", reflective and integrative. This is an introductory course to a subject you know much about? You've lived its content, thought about it, and may even written poems, made a video or rapped about this life-moment. Since you know this so well, why take a university course on it? Because we believe that a course is a space and time to reflect, analyze and learn about what matters to you, about who you are (and where), about scholarly ways of reflecting, analyzing and learning and about the work others have done on this topic. In these ways, this course introduces ways of being an engaged and thoughtful person, citizen and student. We want you to touch the everyday worlds of young people so we require that you do fieldwork. This is basic to all Youth Studies courses, and could help you decide whether this is the major you want.
Style: 20% Lecture, 15% Film/Video, 40% Discussion, 20% Small Group Activities, 5% Student Presentation.
Grading: 20% special projects, 20% written homework, 15% reflection paper, 5% in-class presentation, 40% class participation.

YOST 2101 Urban Youth and Youth Issues
4 credit(s); prereq 1001 or instr consent;
Instructor: Billet,Eric
Description: The geography of youth and of how space influences being a teenager is a critical area of study for those interested in the everyday lives of young people. In cities, space is compressed both literally and metaphorically, including the space for opportunity. Somehow shaping what young people do, with whom, how and when. 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. Our major concern is understanding what their lives and their ways mean to them and how they go about their youthness. To study urban youth is to see the complex intersections of race/ethnicity, social class, religion, gender, sexual orientation, ability, neighborhood, and subculture within particular contexts. The distinctions of which are inextricable elements in any understanding of youth (moral) panics and, hence, our second concern of how adults perceive, understand, explain and respond to urban youth, defined as 12 to 22 years old in cities. We will enhance the depth of our understanding by connecting the abstract course content with concrete experiences by participating in a minimum of 2-3 hours per week of non paid community-based service learning. In addition, these thoughtfully organized community involvement opportunities will enable students to acquire a sense of civic and social responsibility, learn new skills, and gain exposure to cultural and socioeconomic differences. This learning activity is inspired by the belief that the University has a fundamental responsibility to prepare students for citizenship. 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 be caring, safe, decent and just persons in the world.

YOST 3032 Adolescent and Youth Development for Youthworkers
4 credit(s); prereq 1001 or 2001 or 2002W or 2101, [any Psych or CPsy course]; Credit will not be granted if credit has been received for: YOST 5032;
Instructor: VeLure Roholt, Ross Ronald
Description: Student may contact the instructor or department for information.

YOST 3235 Community Building, Civic Engagement, and Civic Youthwork
4 credit(s); prereq [2001, One basic course in Pol, one basic course in Soc] or instr consent; Credit will not be granted if credit has been received for: YOST 5235;
Instructor: VeLure Roholt, Ross Ronald
Description: To introduce civic youthwork through two frames of reference: as engagement in community for healthy youth development and as a mechanism to teach civic involvement through community connections.
Style: 10% Film/Video, 50% Discussion, 40% Small Group Activities.
Grading: 25% reports/papers, 40% special projects, 10% attendance, 15% in-class presentation, 10% class participation.

YOST 3291 Independent Study in Youth Studies
1-8 credit(s), max credits 8, 1 completion allowed; prereq instr consent;
Instructor: Stein, Jerome A
Description: Student may contact the instructor or department for information.

YOST 3291 Independent Study in Youth Studies
1-8 credit(s), max credits 8, 1 completion allowed; prereq instr consent;
Instructor: Johnston-Goodstar PhD, Katie
Description: Student may contact the instructor or department for information.

YOST 3291 Independent Study in Youth Studies
1-8 credit(s), max credits 8, 1 completion allowed; prereq instr consent;
Instructor: Baizerman, Michael Leon
Description: Student may contact the instructor or department for information.

YOST 4196 Youthwork Internship
4 credit(s); prereq Declaration of youth studies major, instr consent;
Instructor: Johnston-Goodstar PhD, Katie
Description: This course is designed to introduce the practice field of youthwork and support your professional development as a youthworker. The overall goal is for us to explore how we can become better reflective and critical practitioners. This is the required course for the Youth Studies major but is open to all who have an interest in improving their capacities in critical and reflective practice and want to explore the field of youthwork. The course requires students to participate in both a weekly seminar and a direct youthwork internship. The focus is on integrating knowledge and youthwork skills for entry-level professional work with young people, individually and in groups. The focus of the supervised fieldwork is on what the experience of doing youthwork with real youth contextually teaches us professionally about affecting change in the lives of young people.

YOST 4314 Theater Activities in Youthwork and Education
2 credit(s); prereq 1001 or 2101; Credit will not be granted if credit has been received for: YOST 5314;
Instructor: Mandell, Janice L
Description: Hands-on introduction to methods and principles of theatre work with youth based on theories of experiential learning and improvisational theatre techniques. This class is designed to enhance the creativity and imagination of youth workers and educators. The major emphasis is to teach students participatory activities they can use to promote personal, social, intellectual, and artistic growth of adolescents. The role of theatre activities in youth work and education is integrated into course content and process. Information is explored, as well as methods of planning, leading, applying, and evaluating their use in a variety of settings. For each setting, key issues, questions, and challenges are examined. Current literature and program 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.

YOST 4316 Media and Youth: Learning, Teaching, and Doing
2 credit(s); prereq 1001 or 2101 or instr consent;
Instructor: Johnston-Goodstar PhD, Katie
Description: Student may contact the instructor or department for information.

YOST 4401W Young People's Spirituality and Youthwork: An Introduction
4 credit(s); prereq 1001 or 2002W or instr consent; Credit will not be granted if credit has been received for: YOST 5401; Meets CLE req of Writing Intensive;
Instructor: Stein, Jerome A
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?

YOST 4411 Youth Research and Youth Program Evaluation
5 credit(s); prereq Basic research methods course or instr consent;
Instructor: Baizerman, Michael Leon
Description: All work with young people is research or research-like in that it is based in part on ?data? ? on an actual young person embedded in actual everyday worlds. What a youthworker does is based in large part in learning from the youth (and others) about this particular person and their worlds, and this learning is research or research-like. Youth as a population, youth worlds, what it is like and what it means to do and be a young person, adolescent, and teen, are a very few of the typical subjects studied and researched, by practitioners and scholars. The list of topics and studies is huge. Evaluation is also a research strategy and it is increasingly used to assess a youth program?S effectiveness. There are many research and evaluation schools of thought and practice and it is difficult to sort which is best, i.e. most appropriate for particular purposes-at-hand, i.e. to answer a particular research question or program evaluation query. You will not be more than a beginner researcher after taking this course, while you will be a far better consumer of research, a better contractor of researchers and evaluators, and also more appreciative of the logical and technical issues in doing empirical research about youth, 12-22 years old, in the US and internationally. To those ends, this course introduces both classical research and program evaluation approaches and gives opportunity to design and carryout a simple empirical study of young people or a simple program evaluation.

YOST 5032 Adolescent and Youth Development for
Youthworkers
4 credit(s); prereq [1001 or 2001 or 2002W or 2101], [any Psych or CPsy course]; Credit will not be granted if credit has been received for: YOST 3032;
Instructor: VeLure Roholt,Ross Ronald
Description: The purpose of this course is to prepare youthwork students and youthwork professionals, at a beginning level, to use developmental theory to inform their work with young people. The course provides an opportunity for youthworkers to understand the power and importance of the theories of human development and to reflect on their application in everyday youthwork practice. Students will explore theories of adolescent and youth development and read case studies about the everyday lives of young people to practice applying the theory.
Style: 10% Film/Video, 60% Discussion, 20% Small Group Activities, 10% Student Presentation.
Grading: 15% mid exam, 50% reports/papers, 5% attendance, 10% in-class presentation, 10% class participation.

YOST 5235 Community Building, Civic Engagement, and Civic Youthwork
4 credit(s); prereq [2001, one basic course in Pol, one basic course in Soc] or instr consent; Credit will not be granted if credit has been received for: YOST 3235;
Instructor: VeLure Roholt,Ross Ronald
Description: To introduce civic youthwork through two frames of reference: as engagement in community for healthy youth development and as a mechanism to teach civic involvement through community connections.

YOST 5291 Independent Study in Youth Studies
1-8 credit(s), max credits 8, 1 completion allowed;
Instructor: VeLure Roholt,Ross Ronald
Description: Student may contact the instructor or department for information.

YOST 5291 Independent Study in Youth Studies
1-8 credit(s), max credits 8, 1 completion allowed;
Instructor: Baizerman,Michael Leon
Description: Student may contact the instructor or department for information.

YOST 5314 Theatre Activities in Youthwork and Education
2 credit(s); prereq 1001 or 2101; Credit will not be granted if credit has been received for: YOST 4314;
Instructor: Mandell,Janice L
Description: Hands-on introduction to methods and principles of theatre work with youth based on theories of experiential learning and improvisational theatre techniques. This class is designed to enhance the creativity and imagination of youth workers and educators. The major emphasis is to teach students participatory activities they can use to promote personal, social, intellectual, and artistic growth of adolescents. The role of theatre activities in youth work and education is integrated into course content and process. Information is explored, as well as methods of planning, leading, applying, and evaluating their use in a variety of settings. For each setting, key issues, questions, and challenges are examined. Current literature and program 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.

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: Stein,Jerome A
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?