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: Simpson, Scott W
  Description: This one credit course is designed for students interested in exploring the many career paths available in health care. Students will have the opportunity to reflect on their own values, skills and interests. You will also hear first-hand from an extensive line-up of guest speakers and learn more about the academic and experiential requirements for health professional schools at the University. Activities will include interest inventories, discussion, journaling, developing an action plan, and other reflective assignments. This course will help you decide if a career in the health professions is a good fit for you.

AHS 1102 Orientation to Health Careers
  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.
  Style: 100% Web Based.
  Grading: 33% quizzes, 33% reflection paper, 33% other evaluation.

AHS 1601 The Future Physician II
  1 credit(s);
  Instructor: Todd, Tricia
  Description: View our Youtube commercial for this course - http://youtu.be/_BoNu2AO-Fw. Explore the field of medicine by hearing from and interacting with guest physician speakers from the U of M Medical School and the community. Think critically about the challenges and opportunities of a career in medicine through reflective exercises. Learn about the knowledge and skills needed to be an effective physician, along with the challenges and rewards gained when caring for patients and explore your own fit with a career in medicine.
  Style: 20% Discussion, 80% Guest Speakers.
  Grading: 15% attendance, 85% reflection paper.

AHS 1602 The Future Physician III: Experiences in Health
  2 credit(s);
  Instructor: Todd, Tricia
  Description: View our Youtube commercial for this course - http://youtu.be/_BoNu2AO-Fw. Registration for this course requires instructor approval and a permission number. Requests to Tricia Todd, MPH, course instructor, at todd0002@umn.edu. An essential component of your application to medical school is experience in a health care setting. This course requires you to complete 35 hours of volunteer experience in a setting that employs physicians and serves patients. In addition, you will complete a medical school application plan and gain additional insight into your own fit with the field of medicine. Offered: Fall, spring, summer semesters; Offered online Prerequisites: AHS 1601 and instructor approval To Register/Permission Numbers:

AHS 2400 Writing a Personal Statement
  S-N only, 1 credit(s);
  Instructor: Todd, Tricia
  Description: Student may contact the instructor or department for information.

AHS 2400 Writing a Personal Statement
  S-N only, 1 credit(s);
  Instructor: Rosand, Jennifer A
Description: Class meets in 2-565 Moos Tower. Contact the Health Careers Center for access to a short online survey before receiving permission number to register - at 612-624-6767. Develop a competitive personal statement. Designed for students applying to a health program in the coming year. As students engage in self-assessment, writing assignments, online discussions, and peer reviews they will develop the skills to write a meaningful personal statement.

**AHS 4300 Directed Study**

1-3 credit(s), max credits 6;

**Instructor:** Todd, Tricia

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

**Accounting**

3-122 Carlson School of Management

**Acct 2050 Introduction to Financial Reporting**

A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;

**Instructor:** Biondich, Nick E

**Description:** This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. In this course, you will learn: --the nature of financial transactions; --the Generally Accepted Accounting Principles (GAAP) that businesses and nonprofit organizations in the U.S. must follow in reporting these transactions; --the vocabulary of financial accounting, sometimes described as the language of business; and --the representations made by financial statements. As you learn the fundamentals of accounting, you will gradually discern many areas that will affect you throughout your life. Whenever your corporate employer describes its financial goals, whenever you observe the stock market reacting to a corporation's earnings, whenever you learn about how a financially troubled company is taking steps to increase its profitability, accounting information is involved. This course will help you increase your understanding of events that take place daily in the financial community.

**Style:** Online

**Grading:** See attached syllabus

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

**Acct 2050 Introduction to Financial Reporting**

A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;

**Instructor:** White, Paul Andrew

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

**Acct 2050 Introduction to Financial Reporting**

A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;

**Instructor:** Henderson, Rachel Autumn

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

**Acct 2050 Introduction to Financial Reporting**

A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;

**Instructor:** Gao, Yu

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

**Acct 2050 Introduction to Financial Reporting**

A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;

**Instructor:** Batina, Tom

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

**Acct 2050 Introduction to Financial Reporting**

A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;

**Instructor:** Dordzhieva, Aysa

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

**Acct 3001 Introduction to Management Accounting**

A-F only, 3 credit(s);

**Instructor:** White, Paul Andrew

**Description:** This course introduces the topic of management accounting. 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 introduce managerial accounting, which directly relates to managerial decision-
making. The course will introduce the design and use of costing systems with specific emphasis on activity based costing systems. The role of managerial accounting in operational and strategic decisions of business firms will also be emphasized.

Style: 40% Lecture, 30% Small Group Activities, 30% Demonstration.
Grading: 30% mid exam, 32% final exam, 25% quizzes, 13% class participation.

Acct 3001 Introduction to Management Accounting
A-F only, 3 credit(s);
Instructor: Forester, Clayton L
Description: Student may contact the instructor or department for information.

Acct 3001 Introduction to Management Accounting
A-F only, 3 credit(s);
Instructor: Batina, Tom
Description: Student may contact the instructor or department for information.

Acct 3150 Role of the Accountant in Today's Finance Function
S-N only, 1 credit(s);
Instructor: Batina, Tom
Description: Student may contact the instructor or department for information.

Acct 3199 Internship in Public Accounting
S-N only, 2 credit(s);
Instructor: Biondich, Nick E
Description: Student may contact the instructor or department for information.

Acct 3201 Intermediate Management Accounting
A-F only, 2 credit(s);
Instructor: White, Paul Andrew
Description: 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 ACCT3001. 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.
Style: 10% Lecture, 45% Discussion, 45% Student Presentation.
Grading: 33% final exam, 27% written homework, 20% in-class presentation, 20% class participation.

Acct 3299 Internship in Management Accounting
S-N only, 2 credit(s);
Instructor: Biondich, Nick E
Description: Student may contact the instructor or department for information.

Acct 5101 Intermediate Accounting I
A-F only, 4 credit(s);
Instructor: Biondich, Nick E
Description: Student may contact the instructor or department for information.

Acct 5101 Intermediate Accounting I
A-F only, 4 credit(s);
Instructor: Madsen, Joshua M
Description: Student may contact the instructor or department for information.

Acct 5102W Intermediate Accounting II
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Tranter, Terry L
Description: Students in class are juniors, seniors, and master's students. While most students are accounting majors, the course is also valuable for students in finance. The class covers the valuation of liabilities and owners' equity accounts, as well as cashflow statements and earnings per share calculations. Students need a thorough background in financial accounting and present value calculations to do well in Acct 5102.
Acct 5102W Intermediate Accounting II
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Biondich, Nick E
Description: Student may contact the instructor or department for information.

Acct 5125 Auditing Principles and Procedures
A-F only, 4 credit(s);
Instructor: Beil, Frank J
Description: Student may contact the instructor or department for information.

Acct 5126 Internal Auditing
A-F only, 2 credit(s);
Instructor: Batina, Tom
Description: Student may contact the instructor or department for information.

Acct 5135 Fundamentals of Federal Income Tax
A-F only, 4 credit(s);
Instructor: Gutterman, 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 5135 Fundamentals of Federal Income Tax
A-F only, 4 credit(s);
Instructor: Naples, Tammy
Description: Student may contact the instructor or department for information.

Acct 5160 Financial Statement Analysis
A-F only, 2 credit(s);
Instructor: Beil, Frank J
Description: Student may contact the instructor or department for information.

Acct 5180 Consolidations and Advanced Reporting
A-F only, 2 credit(s);
Instructor: Biondich, 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);
Instructor: Conlon, Roger John
Description: Student may contact the instructor or department for information.

Acct 5310 International Accounting
A-F only, 2 credit(s);
Instructor: Rayburn, Judy Ann
Description: Student may contact the instructor or department for information.
Acct 5420 MAcc directed study
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Kallio, Larry Rodger
Description: Student may contact the instructor or department for information.

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

Acct 8801 Empirical Research-Valuation
4 credit(s);
Instructor: Shroff, Pervin Keki
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 5011 Foundations in Addiction Studies
A-F only, 2 credit(s);
Instructor: Wawro, George
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. Theoretical perspectives/concepts related to etiology of alcohol/drug dependency/abuse. Emphasizes bio-psycho-social models of addiction/disease: psychodynamics, social learning, contingency, family systems. Connection of theory to empirical research.
Style: Online
Grading: See attached syllabus

AddS 5011 Foundations in Addiction Studies
A-F only, 2 credit(s);
Instructor: Wamsley, Debra S
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. Theoretical perspectives/concepts related to etiology of alcohol/drug dependency/abuse. Emphasizes bio-psycho-social models of addiction/disease: psychodynamics, social learning, contingency, family systems. Connection of theory to empirical research.
Style: Online
Grading: See attached syllabus

AddS 5011 Foundations in Addiction Studies
A-F only, 2 credit(s);
Instructor: Kibben, Roxanne
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. Theoretical perspectives/concepts related to etiology of alcohol/drug dependency/abuse. Emphasizes bio-psycho-social models of addiction/disease: psychodynamics, social learning, contingency, family systems. Connection of theory to empirical research.
Style: Online
Grading: See attached syllabus

AddS 5021 Introduction to Evidence Based Practices and the Helping Relationship
A-F only, 3 credit(s);
Instructor: Boisen, Laura Sue
AddS 5021 Introduction to Evidence Based Practices and the Helping Relationship
   A-F only, 3 credit(s);
   Instructor: Wamsley, Debra S

AddS 5031 Applied Psychopharmacology
   A-F only, 2 credit(s);
   Instructor: Frenz, David Arthur
   Description: Categories of psychoactive drugs. Medicines to treat mental disorders. Substances such as alcohol, nicotine, cocaine, and marijuana. What occurs physiologically when someone takes a psychoactive drug.

AddS 5041 Methods and Models I: Motivational Counseling
   A-F only, 2 credit(s);
   Instructor: Isenhart, Carl E
   Description: Concepts of Motivational Interviewing. Spirit of MI. Primary counseling skills. Working with resistance. Identifying/eliciting change talk. Transitioning into change, negotiating a treatment plan. Strengths/shortcoming of MI.

AddS 5041 Methods and Models I: Motivational Counseling
   A-F only, 2 credit(s);
   Instructor: Weigelt, Jennifer E
   Description: Student may contact the instructor or department for information.

AddS 5051 Methods and Models II: Cognitive Behavioral Therapy
   A-F only, 2 credit(s);
   Instructor: Kammer-Hodge, Heidi Elizabeth
   Description: Student may contact the instructor or department for information.

AddS 5061 Foundations of Group Work
   A-F only, 3 credit(s);
   Instructor: Rohovit, Julie L
   Description: Designing/facilitating therapy groups. Intra-/inter-personal dynamics, leadership skills, developmental aspects, ethical issues. Application to therapy of chemically addicted individuals. Lectures, discussion, experiential exercises, small groups, readings.

AddS 5071 Foundations of Co-occurring Disorders
   A-F only, 2 credit(s);
   Instructor: Becher-Ingwalson, Ann 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. Understanding the mentally ill and chemically abusive or dependent client. Intervention, advocacy, education, and support for client and those that are part or his/her environment. Social, environmental, and multicultural factors that contribute resources for these clients.
   Style: Online
   Grading: See attached syllabus

AddS 5081 Multicultural Foundations of Behavioral Health
   A-F only, 3 credit(s);
   Instructor: Heu, Melanie
   Description: Student may contact the instructor or department for information.

AddS 5081 Multicultural Foundations of Behavioral Health
   A-F only, 3 credit(s);
   Instructor: Wamsley, Debra S
   Description: What is culture? How might culture, cultural practices, and history be significant in the use/abuse of substances? How is culture relevant to the attitudes/practices in the prevention/treatment of substance use/abuse? Multicultural counseling and cultural competence in addiction counseling. People as individuals. Clinician’s own cultural worldview/other cultural worldviews.

AddS 5091 Assessment and Treatment Planning I
AddS 5996 Internship in Substance Abuse Counseling
S-N only, 1-8 credit(s), max credits 8, 4 completions allowed;
Instructor: Rohovit, Julie L
Description: Supervised field work experience. Practical application of substance abuse counseling. Assessment, treatment planning, case management.

AddS 5996 Internship in Substance Abuse Counseling
S-N only, 1-8 credit(s), max credits 8, 4 completions allowed;
Instructor: Spence, Michaelene Rose
Description: Student may contact the instructor or department for information.

Aerospace Engineering and Mechanics 107 Akerman Hall

AEM 1905 Freshman Seminar: Aircraft and Spacecraft: Model Aircraft Design, Flight Test, and Analysis
OPT No Aud, 2 credit(s), max credits 4;
Instructor: Taylor, Brian R
Description: Student may contact the instructor or department for information.

AEM 2011 Statics
A-F only, 3 credit(s);
Instructor: STAFF

AEM 2012 Dynamics
A-F only, 3 credit(s);
Instructor: STAFF

AEM 2021 Statics and Dynamics
A-F only, 4 credit(s);
Instructor: Mueller, Joseph Bernard
Description: Student may contact the instructor or department for information.

AEM 2301 Mechanics of Flight
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 3031 Deformable Body Mechanics
A-F only, 3 credit(s);
Instructor: Hesla, Todd
Description: Student may contact the instructor or department for information.

AEM 3100 Software Applications in AEM: Introduction to Scientific Writing with LaTeX
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Hesla, Todd
Description: Student may contact the instructor or department for information.

AEM 4202 Aerodynamics
A-F only, 4 credit(s);
Instructor: STAFF
AEM 4203 Aerospace Propulsion
  A-F only, 4 credit(s);
  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;
  Instructor: STAFF
  Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 4301 Orbital Mechanics
  A-F only, 3 credit(s);
  Instructor: Ketema, Yohannes
  Description: The two-body problem. Earth-satellite operations, rocket performance, re-entry dynamics, the space environments, the restricted three-body problem, interplanetary trajectories. Numerical simulations. Elementary spacecraft attitude control. Design project. Student may contact instructor for further information.

AEM 4303W Flight Dynamics and Control
  A-F only, 4 credit(s); 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);
  Instructor: STAFF
  Description: Student may contact the instructor or department for information.

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

AEM 4391 Independent Design Project
  A-F only, 3 credit(s);
  Instructor: Garrard, William L
  Description: Student may contact the instructor or department for information.

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

AEM 4511 Mechanics of Composite Materials
  3 credit(s);
  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;
  Instructor: STAFF
  Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 4601 Instrumentation Laboratory
  A-F only, 3 credit(s);
  Instructor: STAFF
  Description: Student may contact the instructor or department for information.
AEM 4796 Professional Experience
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

AEM 4896 International Professional Experience
A-F only, 3 credit(s);
Instructor: Garrard, William L
Description: Student may contact the instructor or department for information.

AEM 5245 Hypersonic Aerodynamics
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 5333 Design-to-Flight: Small Uninhabited Aerial Vehicles
A-F only, 3 credit(s);
Instructor: Gebre Egziabher, Demoz
Description: Student may contact the instructor or department for information.

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

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

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

AEM 8400 Seminar: Aerospace Systems
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Balas, Gary John
Description: Student may contact the instructor or department for information.

AEM 8421 Robust Multivariable Control Design
3 credit(s);
Instructor: Seiler Jr, Peter J
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 9, 8 completions allowed;
Instructor: STAFF
Description: The aim of the course is to learn how to exploit information contained in data collected from a dynamical
system to determine mathematical models describing the system’s dynamical behavior. Methods of system identification are based on the theoretical principles of systems and signals. While the focus of the course is primarily on linear dynamical systems (described by a set of linear differential equations), the course will also cover general considerations about how to treat nonlinear. The system identification principles and methods apply to a wide range of areas. Examples used in the course will cover problems from current research in aerospace (e.g. miniature helicopter, micro-air vehicle) as well as problems from other areas like robotics, neurosciences, and economics. The primary textbook used for the course is "System Identification: Theory for the User" by L. Ljung. The other texts used as references in the course are listed in the reference section.

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

Aerospace Studies  3 Armory

Air 1000 Leadership Laboratory
S-N only, 1 credit(s), max credits 10, 10 completions allowed;
Instructor: Peterson, Major Chris
Description: Student may contact the instructor or department for information.

Air 1104 Introduction to the Air Force Today I
A-F only, 1 credit(s);
Instructor: Bliss, Adam J
Description: The Foundations of the United States Air Force. Air 1104 introduces the mission and organization of the Air Force, officer professional, military customs and courtesies, Air Force officer opportunities, group leadership problems, and introduction to communication skills.
Style: 65% Lecture, 15% Film/Video, 10% Discussion, 10% Student Presentation.
Grading: 25% mid exam, 25% final exam, 13% special projects, 12% quizzes, 25% class participation.
Exam Format: Short Answer / Multiple Choice

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

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

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

Air 3302 Air Force Officership, Quality, and Communication
A-F only, 3 credit(s);
Instructor: Peterson, Major Chris
Description: Student may contact the instructor or department for information.

Air 3402 Preparation for Active Duty
A-F only, 3 credit(s);
Instructor: Peterson, Major Chris
Description: Student may contact the instructor or department for information.
Afro 1012 Black Worlds in Global Perspective: Challenges and Changes

3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: Brewer, Rose Marie

Description: This course is an introduction to the key issues, contemporary and historical, confronting Africa and the African diaspora -- Black worlds. Our focus is diasporic, meaning that we will center on the dispersal of African peoples and the connections uniting people across Africa and the African diaspora. While African dispersal is global, our major focus is on the African continent and the U.S., with some examination of other parts of the Americas and the Caribbean. A key set of questions guide our work. These include: 1) How might we theorize and conceptualize Black Worlds? How might we begin to think about the conceptual, cultural, methodological and theoretical issues that are at the core of diasporic studies? What is ?African?? What is the Black Atlantic? How do we recover the actions and voices of African agency? Does gender matter and how are Black bodies gendered? How might we think about the current period and African peoples in the global economy? What are the burning issues facing Africans on the continent, African Americans, and new African immigrants? These are core questions, yet, there are many other question we might and will consider.

Afro 3002 West African History: 1800 to Present

3 credit(s); Credit will not be granted if credit has been received for: HIST 3455; Meets CLE req of Global Perspectives
Instructor: Coifman, Victoria Bomba

Description: This course, which is deeply and firmly rooted in the African past, also is current and relevant for Africa and its people of today and tomorrow. It provides, for example, the historical information for understanding and evaluating the reasons for poor West African (and continental) governance institutions since the 1960s, as well as the move toward better governments becoming visible today. We look at how West Africans managed the tensions, wars, reconciliation and peace efforts from the nineteenth century on, including the historical causes of recent wars in Liberia and Sierra Leone and the current period of reconstruction in both countries. Study of the economies of the West African past are key to formulating policy for the future. Students planning travel, course work, or internships in West Africa and students with African backgrounds, will find valuable and timely historical 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 late nineteenth and most of the twentieth centuries. We identify the building blocks of West African society, which in turn makes visible the historical West African institutions for regulating representative governments. We study too, the organizations West Africans (and other Africans) developed for managing foreign relations. We study 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. These have led to a very difficult post-colonial period in the last forty-five years. There are signs today, however, of hope, of difficult lessons learned, clearer indications of concrete roads to take towards a healthy, fruitful West African future.

Style: 55% Lecture, 20% Film/Video, 15% Discussion, 10% Small Group Activities. We use written works and oral traditions and oral history as sources of our information, along with videos.

Grading: 25% mid exam, 25% final exam, 50% reports/papers.

Exam Format: Identification of terms, essays. Both have elements of choice within the questions

Afro 3112 In the Heart of the Beat: the Poetry of Rap

A-F only, 3 credit(s);
Instructor: Coleman PhD, Taiyon J

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

Afro 3251W Sociological Perspectives on Race, Class, and Gender

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: SOC 3251W; Meets CLE req of Writing Intensive
Instructor: Brewer, Rose Marie

Description: This course is an analytical overview of the impact of the three major forms of inequalities in the United States today: race, class, gender. Our strategy will be to get a good working of these social forces conceptually, institutionally, and in terms of the everyday realities of life in the U.S. We will focus on these inequalities as relatively autonomous, as interconnected, and as deeply embedded and intertwined. Thus, by the end of the session, you should have a good working knowledge of race, class and gender inequalities and social change possibilities. Films, tapes, discussion, group work, presentations, and lectures are the organizational cores of the course. You will be teamed with other members to form small writing teams, working closely with the teaching

Grading: 40% special projects, 10% class participation, 30% other evaluation. For Three Exams; 20% For Three short reflective papers
Afro 3301 The Music of Black Americans
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Williams, Yolanda Y
Description: This course traces the "genres and styles impacted of music which...define African-American music in the United States." (Southern) We will follow elements found in West African culture and music such as "call and response" and the "2nd Line" as they travel to the "New World" and expressed through Spirituals, Symphonies, Gospel Music, Jazz, Rock and Roll, Step Bands and more. Through lectures, readings, discussion, audio visual examples, and homework assignments student can expect to gain a deeper understanding of the ways music both reflects and impacts the social history of all Americans.
Style: audio visual presentations
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 10% written homework, 10% reflection paper, 10% in-class presentation, 10% class participation. Written assignments: Live Performance Experiences, Blues composition, Listening Assignments, etc.
Exam Format: Multiple choice, True-False, Matching and Essay

Afro 3426 African Americans, Social Policy, and the Welfare State
3 credit(s);
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 3433 Economic Development in Contemporary Africa
3 credit(s); APEC 1101 or ECON 1101 Credit will not be granted if credit has been received for: APEC 3061; Meets CLE req of Global Perspectives
Instructor: Okediji, Tade O
Description: Student may contact the instructor or department for information.

Afro 3592W Introduction to Black Women Writers in the United States
3 credit(s); Credit will not be granted if credit has been received for: ENGL 3592W; Meets CLE req of Writing Intensive
Instructor: Coleman PhD, Taiyon J
Description: Black Women Writers in the United States will explore novels, short stories, essays, poetry, memoirs, and drama from the 18th to the late 20th century. The course will critically explore the literature, criticism, theory, contexts and intersections of race, gender, nationality and other historical, social, economic, political and cumulative positions and identities as conveyed and read within the literature texts and their mutable perspectives. The course will consider the assigned texts within larger and applicable literature canons with an emphasis on the close reading, interpretation, synthesis and facilitation of new, different and expanded knowledge, responses and ideas to and about the literature and its infinite meanings, interpretations and applications to the aesthetics and experiences of Black Women in the United States, the larger Diaspora and the (all inclusive) human condition.
Grading: Leading Discussion and Discussion Document (20%); Mid-Term (25%); Final Paper (35%); and Participation (20%)

Afro 3593 The African American Novel
3 credit(s); Credit will not be granted if credit has been received for: AFRO 5593;
Instructor: Wright, John S
Description: AFRO 3593 & 5593 / ENGL 4593: The African American Novel Since romanticism and literary abolitionism converged in the 1850s, African American storytellers have discovered strategic uses for the modern novel -- making it both an ethical instrument and a vessel of ancestral traditions. Inclined initially more to social realism than to fantasy, romance, or surrealism, black American novelists have created a "committed" literature rooted in the view that the images and ideas of the novel are potential weapons in the struggle for social justice and social transformation. Yet an ever-ready countercurrent of comedies, satires, historical fables, and speculative fictions conjured up by African American novelists express their indebtedness also to philosophical and folk traditions that view literature as a ritualistic and healing exploration of human possibility and the transmundane -- of alternate worlds and worldviews. This course explores these
African American novelistic traditions -- plot patterns, character types, settings, symbols, themes, movements, and mythologies. From the little known novelistic worlds of late nineteenth century preachers and journalists to Harlem Renaissance political thrillers and urban picaresques to internationally renowned neo-slave narratives, Black Arts magic realism, and philosophical metafictions from the late twentieth century, we will steer a course through the creative and critical torrents of the modern black imagination. Because these writers have been profoundly concerned with social and historical "truth," we will find that the materials and techniques of many African American novels, while dramatizing the conflicts and consciousness of the individual, attempt to "reconstruct" emblematically the experiences and historical consciousness of the group. To complement lectures, during regular class meetings we will rely periodically on filmed interviews or documentaries, as well as on a variety of informal small groups to help focus your attention on the texts and concepts at hand, to strengthen your abilities to articulate and share what you have learned, and to provide another gauge of how successfully you are mastering various elements of the course. The course is designed for advanced undergraduates and graduate students. Written assignments and grading options as follows: Critical Research Paper: Each student is required to write an 10-12 page typed research paper (15-20 pages for graduate students) examining the critical reception (original reviews, etc.), interpretive controversies, and current standing of one of the course novels Grades: Option A - 40% journal, 40% term paper, 10% one-page rationales, 10% class participation Option B - 30% short paper, 50% term paper, 10% rationales, 10% class participation

Afro 3598W Introduction to African American Literature and Culture II
4 credit(s); Credit will not be granted if credit has been received for: ENGL 3598W; Meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Wright, John S
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 3865 African American History: 1865 to the Present
3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HIST 3865;
Instructor: Mathieu, Saje M
Description: This course explores African American history from Emancipation to the present. It analyzes the social, political, legal, and cultural dimensions of the African American experience in the United States throughout critical historical moments such as Reconstruction, industrialization, segregation, suffrage, the Great Migrations, World War One, the Great Depression, the New Deal, World War II, the Civil Rights Movement, the black power movement, and contemporary racial politics. In addition to historical texts, students will work closely with various primary sources produced by African Americans, including speeches, newspapers, memoirs, photographs, art, and film.
Style: 70% Lecture, 15% Film/Video, 15% Discussion.
Grading: 25% mid exam, 25% final exam, 30% reports/papers, 20% class participation.

Afro 3868W Race, War, and Race Wars in American History
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: HIST 3868W; Meets CLE req of Writing Intensive
Instructor: Lindquist, Malinda A
Description: Race and war are powerful engines of change and both have fundamentally shaped how Americans think about themselves, their nation, and citizenship. From the Indian Wars, Mexican American Wars and Civil Wars to the World Wars, Cold Wars, Vietnam Wars, and the recent Iraq Wars, this course examines the complicated nexus between race and war. Examining these conflicts from the military’s, the citizen-soldiers’, racial minorities’, and war hawks’ and doves’ perspectives, will allow students to unravel the relationships between war, democracy, patriotism, exclusion, violence, rhetoric, masculinity, and citizenship. Wars have transformed our racial and social landscapes, however, the gendered and classed nature of wartime experiences and military discourse will also receive considerable attention. All wars, however, are not waged by standing militaries. Racial violence, riots, and lynchings, that is, the race wars waged in rural, urban, and
Afro 3910 Topics in the African Diaspora: Black Minnesota History Project

3 credit(s), max credits 9, 3 completions allowed;
Instructor: Onishi, Yuichiro
Description: This is a community-based collective historical research and writing course. It explores the history of Minnesota's African Americans during the first half of the twentieth century. Placed at the center of our collaborative inquiry is the history of Minnesota's African American porters, as well as these porters' family members and allies active in the organizing activity of the Brotherhood of Sleeping Car Porters (BSCP) between the 1920s and the 1950s. The key feature of this course is that what we research and eventually deliver is tightly bound up with community building. Working closely with the local social service agency in St. Paul called Model Cities, we will help this agency create a public history space in its new building. Our goal is to produce and present historical knowledge in a way that allows St. Paul's Rondo community members and others with deep ties to this community - the young and the old - to remember the rich local history of African American activism between the 1920s and the 1950s.
Style: 30% Lecture, 70% Discussion.

Afro 3910 Topics in the African Diaspora: North Africa since 1500: Islam and Colonialism

3 credit(s), max credits 9, 3 completions allowed;
Instructor: Schroeter, Daniel J
Description: Student may contact the instructor or department for information.

Afro 5181W Blacks in American Theatre

3 credit(s); Credit will not be granted if credit has been received for: TH 5181W; Meets CLE req of Writing Intensive
Instructor: Taylor, Dominic A
Description: Student may contact the instructor or department for information.

Afro 5551 Methods: Use of Oral Traditions as Resources for History

3 credit(s);
Instructor: Coifman, Victoria Bomba
Description: Africans and African Americans (like many other people such as Native Americans) have kept some or much of their history in spoken, rather than written form. To access this important data for writing history today, a methodology for the use of oral traditions by historians has been developed. This is based on the work of Jan Vansina, Emeritus Professor of History and of Anthropology, University of Wisconsin-Madison. This course's focus is on the history methodology which allows for the use of oral traditions as sources for history. There is some study too, of the use of oral histories as sources for history. Oral traditions are "verbal messages which are reported statements from the past, beyond the present generation". Jan Vansina, 1985, 27. They are spoken or sung, even carried in music. Oral histories on the other hand, consist of spoken accounts of events taking place in a person's lifetime. Use of the canons of history to analyze and critique oral traditions and to use them along with written historical sources, are the central focus of this class. A popular section of the course is our study of the history of African history in various countries since the 1950s. Also, while the focus is upon African American and African data, students of other peoples' histories, and from the perspective of other disciplines, such as Anthropology, Urban Studies, Literature and Psychology will find much helpful information in the course, for their own work.
Style: 55% Lecture, 20% Film/Video, 15% Discussion, 10% Small Group Activities. Keeping current with reading and lecture assignment is important for fun and fruitful class times.
Grading: 25% mid exam, 25% final exam, 50% reports/papers. Each student fills out three non graded but mandatory sheets of terms from the course for identification. This becomes the base of class discussion, and serves too, as a review mechanism. Students like this a lot.
Exam Format: identification of terms and short essays each part contains elements of choice within the questions.

Afro 5593 The African American Novel

3 credit(s); Credit will not be granted if credit has been received for: ENGL 4593;
Instructor: Wright, John S
Description: AFRO3593&5593 /ENGL 4593: The African American Novel Since romanticism and literary abolitionism converged in the 1850s, African American storytellers have discovered strategic uses for the modern novel -- making it both an ethical instrument and a vessel of ancestral traditions. Inclined initially more to social realism than to fantasy, romance, or surrealism, black American novelists have created a "committed" literature rooted in the view that the images and ideas of the novel are potential weapons in the struggle for social justice and social transformation. Yet an ever-ready countercurrent of comedies, satires, historical fables, and speculative fictions conjured up by African American novelists express their indebtedness also to philosophical and folk traditions that view literature as a ritualistic and healing exploration of human possibility and the transcendent -- of alternate worlds and worldviews. This course explores these
African American novelistic traditions -- plot patterns, character types, settings, symbols, themes, movements, and mythologies. From the little known novelistic worlds of late nineteenth century preachers and journalists to Harlem Renaissance political thrillers and urban picaresques to internationally renowned neo-slave narratives, Black Arts magic realism, and philosophical metafictions from the late twentieth century, we will steer a course through the creative and critical torrents of the modern black imagination. Because these writers have been profoundly concerned with social and historical "truth," we will find that the materials and techniques of many African American novels, while dramatizing the conflicts and consciousness of the individual, attempt to "reconstruct" emblematically the experiences and historical consciousness of the group. To complement lectures, during regular class meetings we will rely periodically on filmed interviews or documentaries, as well as on a variety of informal small groups to help focus your attention on the texts and concepts at hand, to strengthen your abilities to articulate and share what you have learned, and to provide another gauge of how successfully you are mastering various elements of the course. The course is designed for advanced undergraduates and graduate students. Written assignments and grading options as follows: Critical Research Paper: Each student is required to write an 10-12 page typed research paper (15-20 pages for graduate students) examining the critical reception (original reviews, etc.), interpretive controversies, and current standing of one of the course novels Grades: Option A - 40% journal, 40% term paper, 10% one-page rationales, 10% class participation Option B - 30% short paper, 50% term paper, 10% rationales, 10% class participation

Afro 5910 Topics in African American and African Studies: Black Minnesota History Project
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Onishi,Yuichiro
Description: This is a community-based collective historical research and writing course. It explores the history of Minnesota's African Americans during the first half of the twentieth century. Placed at the center of our collaborative inquiry is the history of Minnesota's African American porters, as well as these porters' family members and allies active in the organizing activity of the Brotherhood of Sleeping Car Porters (BSCP) between the 1920s and the 1950s. The key feature of this course is that what we research and eventually deliver is tightly bound up with community building. Working closely with the local social service agency in St. Paul called Model Cities, we will help this agency create a public history space in its new building. Our goal is to produce and present historical knowledge in a way that allows St. Paul's Rondo community members and others with deep ties to this community - the young and the old - to remember the rich local history of African American activism between the 1920s and the 1950s.

Agricultural, Food, and Environmental Education 146 Ruttan Hall

AFEE 2221 People Skills for Leadership
A-F only, 3 credit(s);
Instructor: Lorensen,Marianne Elizabeth
Description: Student may contact the instructor or department for information.

AFEE 2421 Professional Communication for Agriculture, Food, and the Environment
A-F only, 3 credit(s);
Instructor: Swenson,Rebecca Dean
Description: Student may contact the instructor or department for information.

AFEE 2421 Professional Communication for Agriculture, Food, and the Environment
A-F only, 3 credit(s);
Instructor: Swenson,Rebecca Dean
Description: This course is open to any student who wants to practice communicating effectively with many audiences. Students who want to be the next generation of teachers, scientists, industry leaders, advocates, and policy makers must learn how to communicate with the public, their peers, and other audiences. Success in the professional world requires more than mastery of technical knowledge; professionals must be able to communicate information and ideas with clarity,
logic, and strategy in order to make an impact and enact change. The goal of this course is to help students practice foundational writing and speaking skills needed to join current conversations about agriculture, food, and natural resource use and to be successful in a wide variety of careers. For the final project, students work in teams to put together a symposium, modeled after the TED Talks conference (www.ted.com), in which they practice presenting engaging information to different audiences about important issues related to food, agriculture, or environmental challenges and solutions.

Style: 50% Lecture and Discussion, 50% Course Projects and Activities.
Grading: 60% Oral and Written Assignments; 20% quizzes; 20% Attendance, Discussion Board Postings and Participation
Exam Format: No exams. 3 quizzes. (Two quizzes are open-book format; the third is a team-based quiz.)

AFEE 3096 Experiential Learning: Production and Business
1-8 credit(s), max credits 12, 12 completions allowed;
Instructor: Swenson, Rebecca Dean
Description: Student may contact the instructor or department for information.

AFEE 3430 Communicating Food, Agriculture & Environmental Science to the Public
A-F only, 3 credit(s);
Instructor: Swenson, Rebecca Dean
Description: Student may contact the instructor or department for information.

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

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

AFEE 5116 Coordination of SAE Programs: Work-based Learning
A-F only, 2 credit(s);
Instructor: Smith, Amy Rae
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);
Instructor: Greiman, Brad
Description: Student may contact the instructor or department for information.

AFEE 5220 Special Topics in Agriculture Education and Extension: Personal and Youth Leadership Development
2 credit(s), max credits 12, 12 completions allowed;
Instructor: Lorensen, Marianne Elizabeth
Description: Student may contact the instructor or department for information.

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

AFEE 5698 Teaching Internship
3-8 credit(s), max credits 8, 1 completion allowed;
Instructor: Greiman, Brad
Description: Student may contact the instructor or department for information.

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

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

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

Agronomy and Plant Genetics 411 Borlaug Hall

Agro 1093 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Smith, Kevin Paul
Description: Student may contact the instructor or department for information.

Agro 1101 Biology of Plant Food Systems
4 credit(s); Meets CLE req of Biological Sciences
Instructor: Smith, Kevin Paul
Description: This course is designed for students who are not majors in a life science program, but who wish to acquire a better understanding of biological concepts especially as they relate to their lives. This course fulfills the University's Council on Liberal Education Diversified Core requirement for a biology course with lab and the Designated Theme environment. Throughout this course, we will examine in depth, current issues related to food, food production and the environment. These issues will provide the context in which we investigate fundamental concepts of biology and examine ecological principles including productivity, energy, genetic change in populations, and environmental responses to human activity.
Style: 30% Lecture, 1% Film/Video, 7% Discussion, 40% Laboratory, 20% Small Group Activities, 2% Student Presentation.
Grading: 15% final exam, 21% reports/papers, 7% special projects, 6% quizzes, 27% written homework, 24% additional semester exams. 24% additional exams is really three tests that are worth 8% each. Each test is conducted individually and in a small group (collaboratively)
Exam Format: Multiple choice, short answer

Agro 3203W Environment, Global Food Production, and the Citizen
3 credit(s); Credit will not be granted if credit has been received for: AGUM 2224; Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Porter, Paul M
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% mid exam, 20% final exam, 40% reports/papers, 20% class participation.
Exam Format: short essay and multiple choice

Agro 3203W Environment, Global Food Production, and the Citizen
3 credit(s); Credit will not be granted if credit has been received for: AGUM 2224; Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Raeth-Knight, Mary Louise
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% mid 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);
Instructor: Stupar, Robert M
Description: This course is intended for undergraduate majors and non-majors interested in plant genetic resources and diversity. We will focus on methods of identifying, characterizing and conserving plant genetic resources. We will examine the biological basis of genetic diversity and highlight several case studies in which plant genetic resources are currently being utilized for crop improvement. This course will consider plant genetic resources at the local, national and international levels. In the laboratory, students will gain experience with phenotypic, molecular and computer-based methods for distinguishing and cataloging plant genetic diversity.

Style: 50% Lecture, 15% Discussion, 33% Laboratory, 2% Student Presentation.

Grading: 30% mid exam, 25% final exam, 25% reports/papers, 10% quizzes, 10% class participation.

Exam Format: Short answer, multiple choice, matching, vocabulary, problem solving.

Agro 4005 Applied Crop Physiology and Development
4 credit(s), max credits 8;
Instructor: Brakke, Mary Patricia
Description: Student may contact the instructor or department for information.

Agro 4093 Directed Studies for Advanced Students
2 credit(s), max credits 12, 12 completions allowed;
Instructor: Smith, Kevin Paul
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;
Instructor: Brakke, Mary Patricia
Description: Student may contact the instructor or department for information.

Agro 4097 Undergraduate Research Thesis
A-F only, 1-6 credit(s), max credits 12;
Instructor: Smith, Kevin Paul
Description: Students work with a faculty member to develop a research project, carry out the research, and write a thesis.

Style: Regular meetings are scheduled with instructor.

Grading: 100% reports/papers.

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

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

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

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

**Agro 4505 Biology, Ecology, and Management of Invasive Plants**
3 credit(s);
Instructor: Wyse, Donald L
Description: Student may contact the instructor or department for information.

**Agro 5121 Applied Experimental Design**
4 credit(s); Stat 5021 or equiv or instr consent
Credit will not be granted if credit has been received for: ENT 5121;
Instructor: Ehlke, Nancy Jo
Description: This class is designed for graduate students interested in developing practical statistical research skills beyond topics covered in Applied Statistical Analysis (STAT 5021). Successful students will learn central principles in sampling, experimental design, and statistical analysis, and will learn to recognize and analyze results from experimental designs that are commonly used in agricultural, food and natural resource sciences. Students will be able to generate testable hypotheses, organize a work plan to collect research data, and analyze results using appropriate software such as R, SAS, Excel and others as appropriate for specific designs. The course consists primarily of lectures on basic concepts and applications, and discussion sections focus on problem sets, lecture topics that require additional depth, and student projects, as student needs dictate. Grades are based on seven problem sets (10% each) and a semester design project (30%) tailored to individual student research interests.

**Agro 5321 Ecology of Agricultural Systems**
A-F only, 3 credit(s); [3xxx or above] course in [Agro or AnSc or Ent or Hort or PIPa or Soil] or instr consent
Credit will not be granted if credit has been received for: ENT 5321;
Instructor: Jordan, Nicholas Royal
Description: This course develops a concept of agriculture as the result of interactions between human social systems and ecological systems. These "eco-social" interactions define an agroecology that includes humans as ecological actors. The course aims to provide some useful concepts for viewing agriculture from this holistic, "systems" perspective, and some practical experiences in doing so. Our aim is to help our students become better able to work in the face of complex, tangled webs of problems and opportunities in agroecological challenges such as local food system development. Concepts of systems thinking are applied to agriculture through practical applications. The course features a community-based learning component, in which students apply methods of systems thinking to a local "live" agroecology problem, such as local food system development, in partnership with community organizations. The course may be useful for students interested in "the human factor" in any field of environmental studies or management. A manuscript describing the course is attached; please click on the 'syllabus' link below.

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

**Exam Format:** Final written report

**Agro 5980 Publishing in Plant Science Journals**
S-N only, 2 credit(s);
Instructor: Bernardo, Rex N
Description: Students will learn skills for reporting research results in a peer-reviewed journal manuscript. Topics include the publication process; choosing your journal; characteristics of good scientific writing; ethics, plagiarism, and authorship; stating your objectives; writing the different components of a manuscript; citing literature; use of tables and figures; and proofreading. Students are expected to write a manuscript ready for submission to a plant science journal.

**Style:** 10% Lecture, 70% Discussion, 20% Small Group Activities.

**Agro 5999 Special Topics: Workshop in Agronomy: Essentials of Plant Breeding**
3 credit(s), max credits 6, 3 completions allowed;
Instructor: Bernardo, Rex N
Description: Student may contact the instructor or department for information.

**Agro 8202 Breeding for Quantitative Traits in Plants**
3 credit(s);
Instructor: Bernardo, Rex N
Description: Principles and concepts of population and quantitative genetics; application in designing and implementing a plant breeding program; and theory, experimental approaches, and evidence that form the basis for these concepts and breeding strategies.

**Style:** 20% Lecture, 40% Discussion, 40% Small Group Activities.
Grading: 60% mid exam, 30% final exam, 10% class participation.

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

Agro 8280 Current Topics in Applied Plant Sciences
S-N only, 1 credit(s);
Instructor: Thill, Christian A
Description: Student may contact the instructor or department for information.

American Indian Studies 19 Scott Hall

Amln 1001 American Indian Peoples in the United States
3 credit(s); Meets CLE req of Diversity and Soc Justice US
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, language, religion, literature, and the arts.

Amln 1003 American Indians in Minnesota
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Ghebregzi, Alex Anthony
Description: Student may contact the instructor or department for information.

Amln 1003 American Indians in Minnesota
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: McKay, Neil Troy
Description: The course will focus in particular on the history, culture, and lived experience of American Indian people in the state of Minnesota. This course will explore how Anishinaabe (Ojibwe) and Dakota people have represented their lives and histories through film, music, oral traditions and written texts. It also includes some work by non-Indian scholars which focus on the distinctive cultural, philosophical, and linguistic perspectives of Anishinaabe and Dakota peoples. The course invites local Dakota and Ojibwe artists, elders, and scholars to speak on their own experiences. It is particularly interested in reevaluating the students tribal pedagogical and epistemological perspectives or "ways of knowing" as practiced by Indian people in Minnesota today and in the past. This course will introduce students to the humanities as understood within the intellectual perspectives and methodologies of the Dakota and Ojibwe, in particular, and American Indian Studies, more generally. Since these perspectives fall outside the western humanities tradition, this course offers a culturally unique and tribally based perspective on subject matter in the humanities, namely literature, art, music, philosophy and language.
Style: 40% Lecture, 30% Discussion. video, guest speakers
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 10% class participation, 30% other evaluation. attendance, readings
Exam Format: question and answer, open ended, true false

Amln 3201W American Indian Literature
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; 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 the ideas,
themes, and tools Native writers use through close readings of their works. In addition to examining the works we will also examine ways the various works ask us to consider and reconsider our own experiences of living in North America. Your responses to the works and our guiding question will be explored, examined, and developed in class discussions, a variety of short writing assignments, and in a final research essay. You will read four or five books for the course as well as a half-dozen or so short readings. As the course is Writing-Intensive you will also do about 40 pages of writing.

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

**Grading:** 80% reports/papers, 20% quizzes.

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**Amln 3201W American Indian Literature**

3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive

**Instructor:** Power, Susan Mary

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

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**Amln 3301 American Indian Philosophies**

4 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US

**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, 20% Discussion. Group work

**Grading:** 33% mid exam, 33% final exam, 17% reports/papers, 17% class participation.

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

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**Amln 3304 Indigenous Filmmakers**

3 credit(s); Meets CLE req of Arts/Humanities

**Instructor:** Lawson, Angelica

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

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**Amln 3402 American Indians and the Cinema**

A-F only, 3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US

**Instructor:** Meland, Carter

**Description:** In American Indians and the Cinema, we examine historical and contemporary representations of American Indian peoples in film, the power inequities reflected in those representations, and American Indian resistance to those representations. We will ask ourselves how have particular images of Indians in the movies served the interests of an American nationalist agenda rather than the interests of Native individuals and nations themselves. The course aims to make such questions of the power of representation clear to students and offers the tools to engage in a critique of conventional cultural representations of American Indian people, as well as, more critically, exposing them to an emerging body of work by American Indian filmmakers asserting their own authority in controlling their images and offering their stories to the viewing world at large. The course addresses ideas of diversity and social justice in the U.S. by exploring how films by American Indian filmmakers offer a differing idea of what American Indian experience has been and is—and ultimately examines the development of an American Indian "aesthetic" by Native filmmakers that is grounded in the historical and ongoing cultural viability of Native peoples. Students taking the course focus on developing a critical vocabulary for understanding both what film is and how it has historically represented American Indian peoples as well as exploring how these representations have changed, or not, in response to changing historical/social contexts. Through examinations and papers students will engage in the task of articulating their critical insights concerning the films and the contexts they emerge from and reflect on.

**Style:** 10% Lecture, 40% Film/Video, 40% Discussion, 10% Student Presentation.

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**Amln 3701 Ojibwe Culture and History**

3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives

**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 Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: STAFF
Description: This course focuses on Dakota culture and history. Our emphasis will be on the four bands of the Santee Dakotas: the Mdewakantons, Wahpekutes, Wahpetons, and the Sissetons. 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 discussions of contemporary issues relevant to the Dakota people. Target audience: anyone interested in American Indian Studies.
Style: 10% Lecture, 60% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: Multiple Choice, Essay

AmIn 3872 American Indian History: 1830 to the Present
3 credit(s); Credit will not be granted if credit has been received for: HIST 3872;
Instructor: O'Brien, Jean Maria
Description: How did American Indian nations navigate the turbulent nineteenth and twentieth centuries that brought a flood of intruders into their homelands and remake themselves into the vibrant and richly diverse peoples that they are in the present? Beginning with the turmoil surrounding Indian Removal policy in the 1830s, and extending into the present-day struggles of Indian nations to control their own destinies, this course serves as an introduction to American Indian history from 1830 to the present. Touching on such themes such as cultural resistance and political resurgence in the face of U.S. colonialism, we will focus on the interface between the development of Federal Indian policy and American Indian resistance to U.S. initiatives as a unifying theme, and we will also consider major shifts in the nature of American Indian sovereignty into the present. This course stresses the integrity and adaptability of American Indian societies, and the centrality of ever-emergent American Indian identity to the experiences of Indian people. Particular topics include: "Indian Removal and the concept of Indian Territory; Sovereignty: What does it mean? Encounters, east and west; Reservation Life; Pan-Indianism; John Collier and the Indian New Deal; the Indian Claims Commission; Reservation and Relocation; Self-Determination and Indian Activism. Readings are designed to complement course session, and include documents, a monograph, a novel, and compiled oral histories of Indian peoples.
Style: 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.
Grading: 40% mid exam, 40% reports/papers, 10% quizzes, 10% class participation.
Exam Format: Essay

AmIn 4511 American Indian Political Economy
3 credit(s);
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 4990 Topics in American Indian Studies: Dakota Texts, Songs and Translations
1-4 credit(s), max credits 8;
Instructor: McKay, Neil Troy
Description: Student may contact the instructor or department for information.

AmIn 5402 American Indians and the Cinema
A-F only, 3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Meland, Carter

Instructor: STAFF
Description: This course focuses on Dakota culture and history. Our emphasis will be on the four bands of the Santee Dakotas: the Mdewakantons, Wahpekutes, Wahpetons, and the Sissetons. 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 discussions of contemporary issues relevant to the Dakota people. Target audience: anyone interested in American Indian Studies.
Style: 10% Lecture, 60% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: Multiple Choice, Essay
Description: In American Indians and the Cinema, we examine historical and contemporary representations of American Indian peoples in film, the power inequities reflected in those representations, and American Indian resistance to those representations. We will ask ourselves how have particular images of Indians in the movies served the interests of an American nationalist agenda rather than the interests of Native individuals and nations themselves. The course aims to make such questions of the power of representation clear to students and offers the tools to engage in a critique of conventional cultural representations of American Indian people, as well as, more critically, exposing them to an emerging body of work by American Indian filmmakers asserting their own authority in controlling their images and offering their stories to the viewing world at large. The course addresses ideas of diversity and social justice in the U.S. by exploring how films by American Indian filmmakers offer a differing idea of what American Indian experience has been and is—and ultimately examines the development of an American Indian "aesthetic" by Native filmmakers that is grounded in the historical and ongoing cultural viability of Native peoples. Students taking the course focus on developing a critical vocabulary for understanding both what film is and how it has historically represented American Indian peoples as well as exploring how these representations have changed, or not, in response to changing historical/social contexts. Through examinations and papers students will engage in the task of articulating their critical insights concerning the films and the contexts they emerge from and reflect on.

Style: 10% Lecture, 40% Film/Video, 40% Discussion, 10% Student Presentation.

American Sign Language 240 Learning & Environmental Sciences 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. *Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 1702 American Sign Language II
5 credit(s);
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) Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 1703 American Sign Language III
5 credit(s);
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) Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 1704 American Sign Language IV
5 credit(s);
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) Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 3705 Cultural Perspectives of Deafness
3 credit(s);
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.

ASL 3800 ASL Independent Study: Extended Study
American Studies 104 Scott Hall

AmSt 1011 Religions and American Identity in the United States from World War II to the Present
3 credit(s); Credit will not be granted if credit has been received for: RELS 1011; Meets CLE req of Civic Life and Ethics
Instructor: Prell, Riv-Ellen
Description: How does religion become part of public and political life in the United States? Over the last sixty years, religion has played an important role in most of the critical social movements of this period. In addition, the meaning of religious freedom has been contested in the courts leading to some of the most decisions made by the Supreme Court. The course is designed to give students the opportunity to analyze the political and cultural watersheds of the last sixty years through changing ideas about religion in America as well as debates within and between religious traditions and communities. This course will also demonstrate how gender, race, and class have shaped the relationships between religion and politics, and it will examine the persistent tensions between secularism and religiosity and liberalism and fundamentalism in American culture and politics. Some of the case studies will include school bussing, civil rights, gender equality, the War in Viet Nam, and building a mosque and culture center at the site of the World Trade Towers bombed on 9/11. The course emphasizes ethics within the context of public life. It encourages students to examine the meaning of citizenship, its relationship to moral values. It also teaches students about the study of religion as a cultural and social process and emphasizes the complex nature of religion as neither tradition bound, inevitably conservative, nor ahistorical. The class is not a study of comparative religions in America. Rather, it looks at the ways in which religious traditions have engaged public life, and how religious life developed and changed in the United States following WWII.
Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.
AmSt 1012 Migrants, Refugees, Citizens, and Exiles: The U.S. on an Immigrant Planet
3 credit(s);Meets CLE req of Civic Life and Ethics
Instructor: Ferguson,Roderick A
Description: This course is designed to offer students a way of understanding the central roles that various migrations have played in the United States and the larger Americas. It considers how different migrations have been central to the definition of national identity. The course thus conscientiously departs from traditional narratives of migration that focus exclusively on European immigrants coming to the United States and fulfilling 'the American dream'. Instead, the class will examine the ways in which migrations from across the globe are shaped by legal categories and cultural images that are based on race, class, gender, and sexuality. These migrations in turn transformed American law and culture. We examine categories such as "migrant," "citizen," refugee," "exile," "undocumented," "illegal," "asylum seeker," etc to understand how and to whom they are or are not applied. We ask how social processes such as war, work, or sexuality influence to whom these categories are applied. The course focuses on a number of specific historical migrations. These migrations include, but are not limited to, the imperial voyage, Chinese migration and exclusion, the fortification of U.S. borders, Dakota migrations, and contemporary tourism.
Grading: 20% mid exam, 25% final exam, 40% reflection paper, 15% class participation. 4 Short Reaction Papers (2 to 3 pages)
Exam Format: Short answer and Essay

AmSt 2011 The United States since September 11
3 credit(s);Meets CLE req of Civic Life and Ethics; meets CLE req of Historical Perspectives
Instructor: Mahdi,Waleed F.
Description: Student may contact the instructor or department for information.

AmSt 3001 Contemporary Perspectives on Asian America
3 credit(s);Credit will not be granted if credit has been received for: AAS 3001;Meets CLE req of Diversity and Soc Justice US
Instructor: Fajardo,Kale Bantigue
Description: Where are Asian Americans located locally, regionally, nationally, and globally? Does geographic location make a difference in how Asian Americans understand and experience their identities and communities? How do different places and the politics in these places (for example, Asia, U.S. west coast, U.S. Midwest, New York, Hawaii, Caribbean) affect Asian/Asian American experiences, identities and communities? This course focuses on different sites in Asian America to better understand the complexity, beauty, and problems of Asian America. Key questions for the course include: How do Asians/Asian Americans in diverse geographic locations experience, historicize, politicize, visualize, and/or imagine themselves and their communities in the context of the U.S., Asian America, and beyond? Who, what, where, when, and how is Asian America? What are the cultural politics of space, place, and movement in Asian America? How do these issues play out in Minnesota/Twin Cities? Participants in this course will seriously explore and engage these questions and themes by reading theory, literature, film, and art and working on a group research project about an Asian American space, place, or movement in the Twin Cities.
Style: 30% Lecture, 30% Film/Video, 40% Discussion.
Grading: 35% reports/papers, 35% special projects, 30% class participation. Final Project

AmSt 3113W America's Diverse Cultures
3 credit(s);Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive
Instructor: Cornell,Akitkwe J
Description: Student may contact the instructor or department for information.

AmSt 3117 Latinos in America's Global Cities
3 credit(s);Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Topete,Daniel
Description: This course will focus on the ways Latinas/os have and continue to influence global cities in the U.S. A focus on the dynamic history between Latinas/os and the U.S. will allow for an in depth analysis of a complicated relationship dictated by race, citizenship, and belonging. By focusing on a nuanced and diverse Latina/o identity, we will begin to investigate how global cities are created and ever changing. This class examines the Latino demographic growth and the impact it is having on culture and the design of major American cities and its potential for social and political change. The course will begin with conversations on concepts, terms, and themes that will be present throughout the course. This introduction will be used to create an interdisciplinary theoretical grounding for our analysis of Latina/o identity, especially for those students just coming into the field. Then the course will shift focus on how Latinas/os negotiate their identity (gender, cultural, sexual, and ethnic) through specific spaces and how this is reflected in their political, social, and community activism. By centering Latina/o identity, students will be able to grapple with the various social issues including, racism, poverty, sexism and homophobia that affects Latina/o barrios and beyond. Students will be asked to identify and critique one-dimensional understanding of Latina/o identity prevalent in mainstream media, as well as the mechanisms that often lead to racism and criminalization.
AmSt 3252W American Popular Culture and Politics: 1900 to 1940
4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: Butler PhD, Pamela Wynne
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 Civic Life and Ethics; meets CLE req of Historical Perspectives; 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
Grading: Grading will be determined by to be announced instructor

AmSt 3920 Topics in American Studies: Exploring Diversity in Public History
1-5 credit(s), max credits 6;
Instructor: Hoogland, Tim
Description: Student may contact the instructor or department for information.

AmSt 3993 Directed Studies
1-9 credit(s), max credits 9, 1 completion allowed;
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 Diversity and Soc Justice US; meets CLE req of Historical Perspectives
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 focus 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 Diversity and Soc Justice US
Instructor: Pierce, Jennifer L
Description: This course explores the ways that race, gender, and social class have operated both historically and contemporarily through the nexus of work and consumption to structure inequality in the United States and globally. It begins historically by focusing on the trans-Atlantic slave trade making global connections between England, Africa, and the colony of Virginia. Here, slavery as institution is introduced to complicate the notion that work and consumption are separate realms by underscoring the ways that the 'chattel principle' renders slaves at once workers and commodities. From the eighteenth century, the course fast forwards in time to the late twentieth century introducing 'new' dimensions of the global economy. At the same time, it also focuses on continuities with the 'older' global economy including labor migration and the growing inequality between the Global North and Global South. Focusing on feminized migration streams from Mexico, the Philippines, and the Caribbean, we explore the experiences of women from these countries who come to the United States to work for middle-class families as nannies and maids as well as in low level jobs in hotels, restaurants, and other areas of the growing service economy. The following section considers impact of globalization on women and work in other nations. For example, what are the social and economic consequences of Filipino mothers working in the U.S. for their families back in the Philippines? Throughout, the course we examine how consumption is closely linked to work, whether in the case of service work being purchased as a commodity, though analytic models such as commodity chains, consumer culture that contributes to overwork, or workplace practices that encourage consumption.
Style: 50% Lecture, 50% Discussion. class presentations
Grading: 40% mid exam, 50% final exam, 10% in-class presentation.
Exam Format: essay
AmSt 4962W Second Proseminar in American Studies
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Karjanen, David J
Description: Student may contact the instructor or department for information.

AmSt 8202 Theoretical Foundations and Current Practice in American Studies
3 credit(s);
Instructor: Ferguson, Roderick A
Description: Student may contact the instructor or department for information.

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

AmSt 8920 Topics in American Studies
3-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Butler PhD, Pamela Wynne
Description: Student may contact the instructor or department for information.

Anatomy 6-125 Jackson Hall

ANAT 3601 Principles of Human Anatomy
3 credit(s); [BIOL 1002 or BIOL 1009 or BIOL 2002 or equiv], [Concurrent registration is required (or allowed) in 3602 or Concurrent registration is required (or allowed) in 3612], at least soph credit will not be granted if credit received for: Anat 3001/Anat 3301/Anat 3611/INMD 3001/INMD 3301 Credit will not be granted if credit has been received for: ANAT 3001;
Instructor: Weinhaus PhD, Anthony James
Description: Anatomical relationships. Function based upon form. Clinical applications. Gross (macroscopic) anatomy, histology (microscopic anatomy), Neuroanatomy (nervous system), embryology (developmental anatomy). This course has been renamed from ANAT 3001. (It is advised that students take Principles of Human Anatomy laboratory with this lecture).
Prerequisites are: at least sophomore status, and completion of Biol 1001/1002 or 1009 (or equivalent).
Style: 100% Lecture.
Grading: 8% quizzes, 92% additional semester exams.

ANAT 3602 Principles of Human Anatomy Laboratory
2 credit(s); 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, Anthony James
Description: Cadaveric examination of Human Anatomy, including: Gross (macroscopic) anatomy, histology (microscopic anatomy), Neuroanatomy (nervous system), and embryology (developmental anatomy). This course has been renamed from ANAT 3002. ANAT 3602 and 3612 are identical. (This lab is designed to supplement the Lecture course (Principles of Human Anatomy).)
Prerequisites are: Concurrent registration or previous completion of ANAT 3001/3611 or ANAT 3001/3301; AND at least sophomore status: AND completion of Biol 1001/1002 or 1009 (or equivalent).
Style: 100% Laboratory.
Grading: 100% additional semester exams. A total of 12% extra-credit is available

ANAT 3608H Principles of Human Anatomy Laboratory for Honors Students
A-F only, 3 credit(s);
Instructor: Weinhaus PhD, Anthony James
Description: Student may contact the instructor or department for information.

ANAT 3608H Principles of Human Anatomy Laboratory for Honors Students
ANAT 3611 Principles of Human Anatomy
3 credit(s); [BIOL 1002 or BIOL 1009 or BIOL 2002 or equiv], at least soph; [Concurrent registration is required (or allowed) in 3602 or Concurrent registration is required (or allowed) in 3612] recommended credit will not be granted if credit received for: Anat 3001/Anat3301/Anat 3601/INMD 3001/INMD 3301 Credit will not be granted if credit has been received for: ANAT 3001;
Instructor: Weinhaus PhD, Anthony James
Description: Anatomical relationships. Function based upon form. Clinical applications. Gross (macroscopic anatomy), histology (microscopic anatomy), Neuroanatomy (nervous system), embryology (developmental anatomy). This course has been renamed from ANAT 3301. This course is identical to ANAT 3601. (It is advised that students take Principles of Human Anatomy laboratory with this lecture). Prerequisites are: at least sophomore status, and completion of Biol 1001/1002 or 1009 (or equivalent). Lecture for spring of 2010 will be in PWB 2-470
Style: 100% Lecture.
Grading: 100% additional semester exams. A total of 12% extra-credit is available
Exam Format: Multiple choice

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

ANAT 4900 Directed Studies in Anatomy
S-N only, 1-6 credit(s), max credits 18, 3 completions allowed;
Instructor: Weinhaus PhD, Anthony James
Description: Student may contact the instructor or department for information.

Animal Science 305 Haecker Hall

AnSc 1101 Introductory Animal Science
4 credit(s);
Instructor: Seykora, Anthony James
Description: Introduction to animal science with emphasis on fundamental concepts of physiology, nutrition, animal breeding and management as they apply to production systems of livestock, poultry, and companion animals.
Style: 70% Lecture, 10% Discussion, 20% Laboratory.
Grading: 40% mid exam, 20% final exam, 10% laboratory evaluation, 30% problem solving.
Exam Format: Multiple choice and short answer.

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

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

**AnSc 3007 Equine Nutrition**
3 credit(s);  
Instructor: Hathaway, Marcia  
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: 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 3011 Statistics for Animal Science**
4 credit(s); Credit will not be granted if credit has been received for: STAT 3011;  
Instructor: Raeth-Knight, Mary Louise  
Description: The purpose of this course is to introduce students to statistics and statistical techniques and to develop students' statistical reasoning and critical thinking skills. Topics include descriptive statistics, probability, sampling and sampling distributions, hypothesis testing, experimental design, linear correlation, linear regression and multiple linear regression. Students will learn how to make sound arguments and decisions based on statistics when reviewing news articles or scientific publications with statistical content. In addition, in lab sessions, students will learn how to explore and draw conclusions from data using a basic statistical software package.

**AnSc 3141 Advanced Dairy Judging**
1 credit(s);  
Instructor: Hansen, Leslie Bennett  
Description: Especially for students interested in competing with the intercollegiate dairy cattle judging team. A weekly class of four dairy cows will be selected for which oral reasons will be prepared. The one set of reasons each week will be presented numerous times to improve technique.  
Style: 100% Discussion.  
Grading: 100% in-class presentation.

**AnSc 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 Global Perspectives; meets CLE req of Writing Intensive  
Instructor: Porter, Paul M  
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 classroom, 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 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 Global Perspectives; meets CLE req of Writing Intensive
Instructor: Raeth-Knight, Mary Louise
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 classroom, 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);
Instructor: Palmer PhD, Melissa L
Description: Student may contact the instructor or department for information.

AnSc 3302 Human and Animal Physiology Laboratory
1 credit(s);
Instructor: Palmer PhD, Melissa L
Description: Student may contact the instructor or department for information.

AnSc 3307 Artificial Insemination Techniques
S-N only, 1 credit(s);
Instructor: Seykora, Anthony James
Description: Hands-on training and techniques of artificial insemination in cattle at an off-campus laboratory setting. Proper techniques of AI and semen handling, and criteria for selection of bulls.

AnSc 3509 Animal Biotechnology
3 credit(s);
Instructor: Palmer PhD, Melissa L
Description: Student may contact the instructor or department for information.

AnSc 4009W Undergraduate Research Thesis
A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AnSc 4011 Dairy Cattle Genetics
3 credit(s);
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
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Hansen, Leslie Bennett
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Seykora, Anthony James
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Shurson, Gerald C
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Mauro PhD, Laura J.
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Hathaway, Marcia
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Rozeboom, Kyle James
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Palmer PhD, Melissa L
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Raeth-Knight, Mary Louise
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Crooker, Brian A
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Stern, Marshall D
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Ponce de Leon, F. Abel
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: O’Grady PhD, Scott M
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
AnSc 4096 Professional Experience Program: Internship
A-F only, 1-3 credit(s), max credits 6, 4 completions allowed;
Instructor: Elhalawani PhD, M 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: Seykora, Anthony James
Description: Student may contact the instructor or department for information.

AnSc 4305 Companion & Wild Species Reproduction
A-F only, 2 credit(s);
Instructor: Mauro PhD, Laura J.
Description: Student may contact the instructor or department for information.

AnSc 4403 Ruminant Nutrition
3 credit(s);
Instructor: Stern, Marshall D
Description: This course involves lectures and laboratory to focus on nutrient requirements of ruminants, physiology of digestion in ruminants, nutrient content of feedstuffs, primarily forages; energy utilization, protein and nonprotein nitrogen utilization; nutritional disorders; and formulation of adequate rations. Student objectives are to: 1) understand the processes of digestion and the utilization of nutrients by ruminants, 2) understand the systems used to describe nutrient requirements of ruminants, 3) be able to formulate adequate rations for maintenance and production, and 4) have a general knowledge of nutritional disorders and deficiencies. The target audience of this class is undergraduate/graduate students with an interest in nutrition of the ruminant species.
Style: 100% Lecture.
Grading: 10% quizzes, 10% class participation, 80% other evaluation. exams
Exam Format: fill-in-the-blanks, definitions, true/false, matching

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

AnSc 4604 Dairy Production Systems Management
4 credit(s);
Instructor: Endres, Marcia Ines
Description: Student may contact the instructor or department for information.

AnSc 4614 Advanced Dairy Production Systems Management
4 credit(s);
Instructor: Endres, Marcia Ines
Description: Student may contact the instructor or department for information.

AnSc 8141 Mixed Model Methods for Genetic Analysis
A-F only, 2 credit(s), max credits 4;
Instructor: Da, Yang
Description: The focus of this course is genomic prediction and selection using mixed model methods and genome-wide SNP markers. Topics covered in this course include theoretical foundation for prediction of genetic values, selection index theory, best linear unbiased prediction using several mixed models, multivariate mixed models, estimation of variance components using maximum likelihood and restricted maximum likelihood methods, genomic prediction of additive and dominance effects using high density and low density SNP chips, accuracy of genomic prediction, and genomic estimation of variance components using SNP markers.
AnSc 8211 Animal Growth and Development
3 credit(s);
Instructor: Dayton, William R
Description: Student may contact the instructor or department for information.

AnSc 8510 Graduate Seminar
1 credit(s), max credits 12, 12 completions allowed;
Instructor: Dayton, William R
Description: Student may contact the instructor or department for information.

Anthropology 395 HHHCtr

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

Anth 1001 Human Evolution
4 credit(s); Meets CLE req of Biological Sciences
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" 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 1001 Human Evolution
4 credit(s); Meets CLE req of Biological Sciences
Instructor: Armstrong, Aaron J
Description: Student may contact the instructor or department for information.

Anth 1003V Understanding Cultures: Honors
A-F only, 4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Lipset, David M
Description: This course is an introduction to cultural anthropology for undergraduate majors and non-majors. The course
develops a concept of culture and illustrates is through comparative study of societies throughout the world. Topics include research methods, adaptive strategies; exchange processes; kinship, marriage and gender, social stratification; politics; religion and ritual; globalization and processes of change. The course is offered in a hybrid format. Weekly lectures will be viewed online. Students will also be required to contribute to weekly online discussion forums and download active learning assignments to turn in during sections. Exams will also be taken online. Students will also be required to attend live, classroom-based sections once a week.

Anth 1003W Understanding Cultures
4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Lipset, David M
Description: This course is an introduction to cultural anthropology for undergraduate majors and non-majors. The course develops a concept of culture and illustrates is through comparative study of societies throughout the world. Topics include research methods, adaptive strategies; exchange processes; kinship, marriage and gender, social stratification; politics; religion and ritual; globalization and processes of change. The course is offered in a hybrid format. Weekly lectures will be viewed online. Students will also be required to contribute to weekly online discussion forums and download active learning assignments to turn in during sections. Exams will also be taken online. Students will also be required to attend live, classroom-based sections once a week.

Anth 1904 Freshman Seminar: Learning Anthropology Through Science Fiction
A-F only, 3 credit(s); Meets CLE req of Global Perspectives
Instructor: Tostevin, Gilbert B
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); Credit will not be granted if credit has been received for: EEB 3002;
Instructor: Garrett, Niki
Description: Student may contact the instructor or department for information.

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

Anth 3009 Rise of Civilization
3 credit(s); Credit will not be granted if credit has been received for: HIST 3066; Meets CLE req of Historical Perspectives
Instructor: Wells, Peter S
Description: Examines the development of complex societies, from early hunter-gatherer groups through settled agricultural villages, to the rise of towns and cities. Comparison of processes of change in ten regions of the world. Intended for all undergraduates.
Style: 95% Lecture, 5% Discussion.
Grading: 45% mid exam, 35% final exam, 20% reports/papers.
Exam Format: multiple choice, essay

Anth 3015W Biology, Evolution, and cultural Development of Language
3 credit(s); Credit will not be granted if credit has been received for: ANTH 5015W; Meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Meyer, Nathan Edward
Description: Student may contact the instructor or department for information.

Anth 3021W Anthropology of the Middle East
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ANTH 5021W; Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Altun, Murat
Anth 3022W Anthropology of Dreaming and Myth
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Phillips, Leonore Amalia
Description: Student may contact the instructor or department for information.

Anth 3034 Roots Music in American Culture and Society
3 credit(s);
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 3036 The Body in Society
3 credit(s);
Instructor: Lipset, David M
Description: Since the beginnings of modern social theory, the body has been viewed as one of the main vehicles through which the person positions him- or herself in society and, vice versa, through which society imprints itself upon the person. Durkheim developed the view that the body is a category by which society represents itself and a mode of action society may direct, shape, channel, etc. Starting with a thorough discussion of the Durkheimian view of the body, this first half of the course will examine subsequent analyses that he inspired: of body-related practices found in the contexts of birth, etiquette, feet, taste in dress, hair, cosmetics, face-to-face interaction, in the anthropology of death and pollution and in the nation-state. In the second half of the course, the focus will shift to modernist and postmodern as well as globalized studies of masculinity and femininity, suicide bombing, the virtual body, organ traffic, etc. In both sections this course will be thoroughly comparativist; it will draw on monographs, selected articles, documentary videos, Hollywood and Independent movies.
Style: 60% Lecture, 30% Film/Video, 10% Small Group Activities.
Grading: 50% mid exam, 30% final exam, 20% class participation. Class participation based in active learning exercises. Exam Study guides passed out prior to exam.
Exam Format: Multiple choice and essay.

Anth 3306W Medical Anthropology
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Shiva, Amirpouyan
Description: Student may contact the instructor or department for information.

Anth 3405 Human Skeletal Analysis
A-F only, 3 credit(s); 1001 or instr consent Credit will not be granted if credit has been received for: ANTH 5405;
Instructor: Slepkov, Rebecca
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.
Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Monnier, Gilliane F
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Ho, Karen
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.
Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anth 4007 Laboratory Techniques in Archaeology
1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Edling, Matt John
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Monnier, Gilliane F
Description: Student may contact the instructor or department for information.
Anth 4013 Senior Project
3 credit(s);
Instructor: Ho,Karen
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Valentine,David
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anth 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

Anth 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 4071 Race, Culture, and Vision
A-F only, 3 credit(s);
Instructor: Song, Hoon
Description: What do we see when we look at a photograph, a painting, or someone's face? How do we come to understand that vision is a source of evidence for what the world or a person is like? How do past experiences with objects, people, and language shape our understanding of what it means 'to see' something? In short, how do the particular societies and cultures in which we live shape how we come 'to see' the world and people around us? In this class we will explore how culture shapes the ways in which people see the world. We will begin by examining some of the historical practices, technologies, and beliefs that have determined how Western European societies and cultures have come to value vision as the most 'noble' of the senses. We will then examine how 'race' as a visual evidence came to its prominence as a way of categorizing people. The course concludes by exploring how some non-European societies think about the senses, and how the use of visual images as forms of evidence varies cross-culturally. How, then, would 'race' fair as an evidential category in the non-European cultures?
Style: 70% Lecture, 30% Discussion.
Grading: 20% mid exam, 30% reports/papers, 20% in-class presentation, 30% class participation.
Exam Format: Short answer and essays

Anth 4101 Archival Analysis for Anthropologists
3 credit(s);
Instructor: Hayes, Katherine F H
Spring 2014: This course offers students the opportunity to learn the methods of archival research, especially for addressing questions of anthropological significance: for example, how has cultural difference, especially ethnicity, been experienced, publicly perceived, or made the subject of legal and structural inequalities? How has gender ideology been impacted by changing roles in society for women? How is race conceptualized in historical discourses? In the spring of 2014, this course will focus on issues of immigration, ethnicity, religion, class, constructed space and domestic life through the intensive investigation of the Bohemian Flats and other contemporaneous river-front immigrant neighborhoods in Minneapolis and St Paul. From the urban and industrial development of the Twin Cities in the later 19th century through the mid-20th century, waves of immigrants have been housed in marginal neighborhoods adjacent to the Mississippi River. These areas were less than ideal places to live, lacking in adequate infrastructure and routinely flooded. What was life like in these neighborhoods? How were the immigrants there perceived, especially in terms of ethnicity? How did they create their own sense of community? Where did they work? Where did they or their descendants move on to? And how can learning about their experience change the way we think about immigrants today? Students in this class will learn to utilize local archival resources to investigate these questions, while also learning factors to consider in archives and particular types of documentary remains which impact interpretations. Your work will be developed into publicly accessible interpretations, like exhibit panels, web pages, interactive maps, or walking tours, to be presented in an open event at the end of the semester.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
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Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
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Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 4993 Directed Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Lipset, David M
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Anth 4994W Directed Research
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  Instructor: Langford, Jean M
  Description: Student may contact the instructor or department for information.

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  1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
  Instructor: Taussig, Karen-Sue
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Anth 4994W Directed Research
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  Instructor: Tostevin, Gilbert B
  Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
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  Instructor: Wilson, Michael Lawrence
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  Instructor: Valentine, David
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Anth 4994W Directed Research
  1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
  Instructor: McLean, Stuart J
  Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
  1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
  Instructor: Song, Hoon
  Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
  1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
  Instructor: Beeman, William O
  Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
  1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
  Instructor: McNulty, Kieran P
  Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
  1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
  Instructor: Hayes, Katherine F H
  Description: Student may contact the instructor or department for information.
Anth 5015W Biology, Evolution, and Cultural Development of Language
3 credit(s); Credit will not be granted if credit has been received for: ANTH 3015W; Meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Meyer, Nathan Edward
Description: Student may contact the instructor or department for information.

Anth 5021W Anthropology of the Middle East
3 credit(s); Credit will not be granted if credit has been received for: ANTH 3021W; Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Altun, Murat
Description: Student may contact the instructor or department for information.

Anth 5113 Primate Evolution
A-F only, 3 credit(s); Anthropology major, junior or senior Credit will not be granted if credit has been received for: ANTH 8113;
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 5128 Anthropology of Education
3 credit(s); Credit will not be granted if credit has been received for: OLPD 5128;
Instructor: Demerath, Peter
Description: Student may contact the instructor or department for information.

Anth 5244 Interpreting Ancient Bone
A-F only, 4 credit(s); 1001 Credit will not be granted if credit has been received for: ANTH 8244;
Instructor: Tappen, Martha
Description: This seminar designed to provide a venue for reviewing current and classic literature on interpreting the fossil and archaeological records using information from bones of humans and of other animals, and includes topics in paleoanthropology; zooarchaeology; reconstruction of past environments using vertebrate taxonomy and ecomorphology; and site formation processes. This is not a laboratory class, but rather one based on literature. ANTH 3402/5402 Zooarchaeology Laboratory is a complementary course (but not a required prerequisite for this class). Topics such as interpreting life history and ages of death of hominins and prey, hunting techniques/scavenging, species profiles, comparative site analysis, clues of ancient social structures, and preservation issues and bone quantification techniques will be covered. The bulk of the work in this class will be weekly readings and discussion. Each week all students will read assigned articles in common on the main topic of the week, and in addition one other article that they are solely responsible for bringing to the discussion. Students will present site reports and write a paper on a related topic of their choice.
Style: 20% Lecture, 60% Discussion, 20% Laboratory.
Grading: 25% reports/papers, 25% special projects, 50% class participation. Papers and site reports will be presented to the class.

Anth 5405 Human Skeletal Analysis
A-F only, 3 credit(s); 1001 or instr consent Credit will not be granted if credit has been received for: ANTH 3405;
Instructor: Slepkov, Rebecca
Description: Student may contact the instructor or department for information.

Anth 5444 Archaeological Ceramics
A-F only, 4 credit(s);
Instructor: Hayes, Katherine F H
Description: Nearly every archaeologist encounters pottery fragments in site excavations and/or collections analysis at some point in her/his career. This is because of the durability the material and near-ubiquity of ceramic utilization. The goal of this course is to give you the essential working vocabulary and knowledge of ceramics as material, technology, and cultural/social trace. In this course we will read and discuss ceramic technology and use, learn the methods of assessing the various aspects of pottery production (raw material mixtures, building, decorating, and firing) through hands-on work with department collections, and critically review the research design and interpretations of other archaeologists? ceramic analyses. Grade is based on lab exercises, one exam, and a directed research project.

Anth 5446 Archaeology of Representation as Communication
A-F only, 3 credit(s);
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.
Anth 5448 Applied Heritage Management
A-F only, 3 credit(s);
Instructor: Anfinson, Scott F
Description: Student may contact the instructor or department for information.

Anth 5980 Topics in Anthropology: Language and Food
3 credit(s), max credits 12;
Instructor: Szatrowski, Polly Ellen
Description: Anthropology 5980 (Sec 004) Topics in Anthropology: Language and Food (Polly Szatrowski) What could be more central to our lives than language and food? We learn language (together with gesture) and the tastes (textures, smells, visual features, and sounds) we associate with food early in our lives, and both form an important part of our identities. In this course, we will address the following questions: 1) How do we organize our language and bodies around food, i.e., how do we use them to get to and from the table, and to proceed in a meal (e.g., at a sushi restaurant)? 2) How do we use language to taste, identify and assess food, and how do these fine distinctions and discriminations define us as people and relate to our identity? 3) How do we talk about our experience of food and tell stories about food? 4) What metaphors do we have for food and how does language relate to gender in the context of food? 5) How is language used to socialize children around food? We will explore the relation between language and food by video recording and analyzing actual conversations among people eating a variety of foods, using a variety of languages, including English, Japanese, Chinese, Lao, Kri, Eegimaa, Wolof, Italian, Persian, German, Danish, and French. The class will be most rewarding for students who like to cook/eat, talk about food, and educate their palate. Prerequisite: LING 3001 or 3011 or 5001 OR permission of the instructor
Style: 30% Lecture, 40% Discussion, 30% Student Presentation.
Grading: 30% Major Paper, Abstract, Presentation 30% Data collection, Transcription, Written homework assignments 40% Class Participation and Preparation

Anth 5980 Topics in Anthropology: Language and Gender
3 credit(s), max credits 12;
Instructor: Sheldon PhD, Amy
Description: Language and Gender Taught with Anth 5980. Prereq: Introduction to Linguistics, Introduction to Linguistic Anthropology, or equivalent. Description: Description: Language and Gender Taught with Anth 5980. Prereq: Introduction to Linguistics, or Introduction to Linguistic Anthropology, or the equivalent, or instr consent, 3 credits, Instructor: Sheldon, Amy
Description: This course will critically examine whether and how language and communicative practices construct and represent normative and non-normative sexualities and genders. Possible topics: gender socialization through language; genderfuchs; gender as binarity or multiplicity; gender as linguistic stylization; language issues in LGBT communities; sexist and nonsexist language; language reform; conversational and rhetorical practices that create dominance, subordination, silencing and resistance. Language contexts include, but are not limited to: everyday conversational interactions that create personal relationships, personal narratives, talk in public spaces (e.g., radio/TV/print media, classrooms, workplaces, online language), etc. Students will observe their own and others’ everyday speech and will work with found or recorded examples. Term projects can be started early and developed with guidance across the semester. The focus is on English but comparisons across languages are welcome. Moodle enhanced. Electronic reserves and text. If you have questions, please contact Professor Amy Sheldon, asheldon@umn.edu Moodle enhanced. Electronic reserves and text. If you have questions, please contact Professor Amy Sheldon, asheldon@umn.edu
Style: 20% Lecture, 25% Discussion, 30% Small Group Activities, 20% Student Presentation, 5% Demonstration.
Grading: 50% reports/papers, 20% written homework, 10% attendance, 10% in-class presentation, 10% class participation. No exams.
Exam Format: n.a.

Anth 8002 Ethnography: Contemporary Theory and Practice
A-F only, 3 credit(s);
Instructor: Taussig, Karen Sue
Description: Student may contact the instructor or department for information.

Anth 8113 Primate Evolution
A-F only, 3 credit(s); Anthropology doctoral student Credit will not be granted if credit has been received for: ANTH 5113;
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 8244 Interpreting Ancient Bone
A-F only, 4 credit(s); instr consent Credit will not be granted if credit has been received for: ANTH 5244;
Instructor: Tappen, Martha
Description: This seminar designed to provide a venue for reviewing current and classic literature on interpreting the fossil
and archaeological records using information from bones of humans and of other animals, and includes topics in paleoanthropology; zooarchaeology; reconstruction of past environments using vertebrate taxonomy and ecomorphology; and site formation processes. This is not a laboratory class, but rather one based on literature. ANTH 3402/5402 Zooarchaeology Laboratory is a complementary course (but not a required prerequisite for this class). Topics such as interpreting life history and ages of death of hominins and prey, hunting techniques/scavenging, species profiles, comparative site analysis, clues of ancient social structures, and preservation issues and bone quantification techniques will be covered. The bulk of the work in this class will be weekly readings and discussion. Each week all students will read assigned articles in common on the main topic of the week, and in addition one other article that they are solely responsible for bringing to the discussion. Students will present site reports and write a paper on a related topic of their choice.

**Style:** 20% Lecture, 60% Discussion, 20% Laboratory.
**Grading:** 25% reports/papers, 25% special projects, 50% class participation. Papers and site reports will be presented to the class.

**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: Hayes, Katherine F H
Description: Spring 2014: This course offers students the opportunity to learn the methods of archival research, especially for addressing questions of anthropological significance: for example, how has cultural difference, especially ethnicity, been experienced, publicly perceived, or made the subject of legal and structural inequalities? How has gender ideology been impacted by changing roles in society for women? How is race conceptualized in historical discourses? In the spring of 2014, this course will focus on issues of immigration, ethnicity, religion, class, constructed space and domestic life through the intensive investigation of the Bohemian Flats and other contemporaneous river-front immigrant neighborhoods in Minneapolis and St Paul. From the urban and industrial development of the Twin Cities in the later 19th century through the mid-20th century, waves of immigrants have been housed in marginal neighborhoods adjacent to the Mississippi River. These areas were less than ideal places to live, lacking in adequate infrastructure and routinely flooded. What was life like in these neighborhoods? How were the immigrants there perceived, especially in terms of ethnicity? How did they create their own sense of community? Where did they work? Where did they or their descendants move on to? And how can learning about their experience change the way we think about immigrants today? Students in this class will learn to utilize local archival resources to investigate these questions, while also learning factors to consider in archives and particular types of documentary remains which impact interpretations. Your work will be developed into publicly accessible interpretations, like exhibit panels, web pages, interactive maps, or walking tours, to be presented in an open event at the end of the semester.

**Anth 8810 Topics in Sociocultural Anthropology: Ethnography, Literature & Arts of Fabulation**
3 credit(s), max credits 9, 3 completions allowed;
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

**Anth 8991 Independent Study**
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

**Anth 8991 Independent Study**
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

**Anth 8991 Independent Study**
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

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Instructor: Tappen, Martha
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Instructor: Beeman, William O
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Instructor: McNulty, Kieran P
Anth 8991 Independent Study
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Hayes,Katherine F H
Description: Student may contact the instructor or department for information.

Anth 8992 Directed Reading
1-18 credit(s), max credits 54, 3 completions allowed;
Instructor: Wells,Peter S
Description: Student may contact the instructor or department for information.

Anth 8992 Directed Reading
1-18 credit(s), max credits 54, 3 completions allowed;
Instructor: Raheja,Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 8992 Directed Reading
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Instructor: Gudeman,Stephen Frederick
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Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Monnier, Gilliane F
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Ho, Karen
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 8993 Directed Study

1-18 credit(s), max credits 18, 3 completions allowed;
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.
Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Monnier, Gilliane F
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Ho, Karen
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.
Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 8994 Directed Research
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Apparel Design 240 McNeal Hall

ADes 2196 Work Experience in Apparel Design
S-N only, 1-4 credit(s), max credits 8;
Instructor: LaBat, Karen Louise
Description: Student may contact the instructor or department for information.

ADes 2196 Work Experience in Apparel Design
S-N only, 1-4 credit(s), max credits 8;
Instructor: Bye, Elizabeth K
Description: Student may contact the instructor or department for information.

ADes 2196 Work Experience in Apparel Design
S-N only, 1-4 credit(s), max credits 8;
Instructor: DeLong, Marilyn R
Description: Student may contact the instructor or department for information.

ADes 2196 Work Experience in Apparel Design
S-N only, 1-4 credit(s), max credits 8;
Instructor: Dunne, Lucy Elizabeth
Description: Student may contact the instructor or department for information.

ADes 2214 Softlines Analysis
A-F only, 3 credit(s);
Instructor: Gahring, Sherri Ann
Description: Student may contact the instructor or department for information.

ADes 2221 Apparel Design Studio I
A-F only, 4 credit(s);
Instructor: STAFF
Description: Introduction to theories and methods used to solve problems in designing clothing for a variety of user groups. Developing an understanding of the relationship of the 2-dimensional pattern shape to the 3-dimensional body. Introduction to basic flat pattern, draping and fitting principles. The objectives of the course are: To understand the basic relationship of the 2-dimensional plane to the 3-dimensional body in developing patterns; To understand and utilize
flat pattern manipulation to vary pattern style while maintaining size in the design of clothing; To examine, evaluate, and utilize pattern development techniques as appropriate for selected clothing designs; To learn the basic process of apparel design ideation through the use of a variety of illustration techniques; To learn and implement the basic process of apparel pre-production form design concept through finished sample. This class is designed for pre-clothing design majors who have completed the necessary prerequisites: DHA 1201, 1311, 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. Studio

**Grading:** 50% special projects, 50% problem solving.

**ADes 3196 Field Study:** National or International
- A-F only, 1-10 credit(s), max credits 10, 3 completions allowed;
- Instructor: Dunne, Lucy Elizabeth
- Description: Student may contact the instructor or department for information.

**ADes 3223 Apparel Design Studio III**
- A-F only, 3 credit(s);
- Instructor: STAFF
- Description: This course is designed for clothing design majors as part of the clothing design studio sequence. The study of tailored and non-tailored clothing structures is covered. Experimentation with a variety of materials and structures using innovative methods is explored and implemented with a series of garments.
- Style: 15% Lecture. studio work
- Grading: 80% special projects, 10% in-class presentation, 10% laboratory evaluation.

**ADes 3224 Apparel Design Studio IV**
- A-F only, 3 credit(s);
- Instructor: Dunne, Lucy Elizabeth
- Description: Student may contact the instructor or department for information.

**ADes 3225 Apparel Design Research**
- A-F only, 1 credit(s);
- Instructor: Bye, Elizabeth K
- Description: Student may contact the instructor or department for information.

**ADes 3228 Portfolio Development**
- A-F only, 2 credit(s);
- Instructor: Sheber, Sarah
- Description: Student may contact the instructor or department for information.

**ADes 4121 History of Costume**
- A-F only, 4 credit(s);
- Instructor: DeLong, Marilyn R
- Description: Survey of clothing and appearances in Western culture from pre-history to present day. Examination of how lines, shapes, color, texture, mass, and body proportions and movements, are assembled within a social context including time, culture, and event. Research approaches and methods in the study and interpretation of dress are included. Teaching method includes lecture, discussion and laboratory with sample slides, videos, use of actual artifacts in the historic costume collection of the Goldstein. Target audience is upper level undergraduate students.
- Style: 30% Lecture, 30% Discussion, 30% Laboratory.
- Grading: 15% mid exam, 15% final exam, 10% reports/papers, 30% special projects, 10% in-class presentation, 10% class participation, 10% laboratory evaluation.
- Exam Format: Multiple choice and some essay.

**ADes 4160H Honors Capstone Project**
- A-F only, 2 credit(s), max credits 4;
- Instructor: LaBat, Karen Louise
- Description: Student may contact the instructor or department for information.
ADes 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;  
Instructor: Bye, Elizabeth K  
Description: Student may contact the instructor or department for information.

ADes 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;  
Instructor: DeLong, Marilyn R  
Description: Student may contact the instructor or department for information.

ADes 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;  
Instructor: Dunne, Lucy Elizabeth  
Description: Student may contact the instructor or department for information.

ADes 4193 Directed Study in Apparel Design
A-F only, 1-4 credit(s), max credits 8;  
Instructor: LaBat, Karen Louise  
Description: Student may contact the instructor or department for information.

ADes 4193 Directed Study in Apparel Design
A-F only, 1-4 credit(s), max credits 8;  
Instructor: Bye, Elizabeth K  
Description: Student may contact the instructor or department for information.

ADes 4193 Directed Study in Apparel Design
A-F only, 1-4 credit(s), max credits 8;  
Instructor: DeLong, Marilyn R  
Description: Student may contact the instructor or department for information.

ADes 4193 Directed Study in Apparel Design
A-F only, 1-4 credit(s), max credits 8;  
Instructor: Dunne, Lucy Elizabeth  
Description: Student may contact the instructor or department for information.

ADes 4196 Internship in Apparel Design
S-N only, 1-4 credit(s), max credits 4, 1 completion allowed; Completion of at least one-half of professional sequence, plan submitted and approved in advance by adviser and internship supervisor, written consent of faculty supervisor, instr consent credit will not be granted if credit already received for: DHA 4196 Credit will not be granted if credit has been received for: GDES 4196;  
Instructor: STAFF  
Description:

ADes 4215 Product Development: Softlines
A-F only, 4 credit(s);  
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 ideation 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. Project this year with Target Corporation. Must be Apparel Design or Retail Merchandising senior with sufficient background to participate in this fast-paced project.  
Style: 10% Lecture, 5% Discussion, 5% Laboratory, 45% Small Group Activities, 5% Student Presentation, 5% Demonstration, 5% Field Trips, 15% Studio, 5% Guest Speakers.  
Grading: Grade based on work on the project for the company. Quality of effort is determined through evaluation of presentations and project results. Portion of grade determined through peer evaluation and evaluation by project sponsor.

Apparel Studies  240 McNeal Hall

ApSt 5117 Retail Environments and Human Behavior
ApSt 5121 History of Costume
A-F only, 3 credit(s);
Instructor: Wu,Juanjuan
Description: Theory and research related to the designed environment across retail channels. Upon completion of this course, students should be able to: -- Analyze the importance of retail environments as stimuli to consumer behavior. -- Develop sensitivity to sustainability issues in retailing. -- Identify, synthesize, and critique research and theories applicable to various retailing formats and environments. -- Design, develop, and conduct original research focusing on retail environments. -- Develop and refine critical writing skills in communicating and disseminating scholarship.

ApSt 5193 Directed Study in Apparel Studies
A-F only, 1-4 credit(s), max credits 8;
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

ApSt 8192 Readings in Apparel Studies
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.

ApSt 8192 Readings in Apparel Studies
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Bye,Elizabeth K
Description: Student may contact the instructor or department for information.

ApSt 8192 Readings in Apparel Studies
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.

ApSt 8192 Readings in Apparel Studies
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Wu,Juanjuan
Description: Student may contact the instructor or department for information.

ApSt 8192 Readings in Apparel Studies
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Im,Hyunjoo
Description: Student may contact the instructor or department for information.

ApSt 8192 Readings in Apparel Studies
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Kim,Hye-Young
Description: Student may contact the instructor or department for information.

ApSt 8192 Readings in Apparel Studies
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Dunne,Lucy Elizabeth
Description: Student may contact the instructor or department for information.

ApSt 8193 Directed Study
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.
ApSt 8193 Directed Study  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Bye, Elizabeth K  
Description: Student may contact the instructor or department for information.

ApSt 8193 Directed Study  
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.

ApSt 8193 Directed Study  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Wu, Juanjuan  
Description: Student may contact the instructor or department for information.

ApSt 8193 Directed Study  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Im, Hyunjoo  
Description: Student may contact the instructor or department for information.

ApSt 8193 Directed Study  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Kim, Hye-Young  
Description: Student may contact the instructor or department for information.

ApSt 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: LaBat, Karen Louise  
Description: Student may contact the instructor or department for information.

ApSt 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: Bye, Elizabeth K  
Description: Student may contact the instructor or department for information.

ApSt 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: DeLong, Marilyn R  
Description: Student may contact the instructor or department for information.

ApSt 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: Wu, Juanjuan  
Description: Student may contact the instructor or department for information.

ApSt 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: Im, Hyunjoo  
Description: Student may contact the instructor or department for information.

ApSt 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: Kim, Hye-Young  
Description: Student may contact the instructor or department for information.
ApSt 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Dunne, Lucy Elizabeth
Description: Student may contact the instructor or department for information.

ApSt 8267 Dress and Culture
A-F only, 3 credit(s);
Instructor: STAFF
Description: Dressing the body includes all supplements (e.g., apparel, cosmetics) added to the body as well as all body modifications (e.g., piercings, tattoos). A dressed body reflects cultural expectations learned throughout one’s life. In this course, we investigate the concept of dress as it relates to identity, power, age, gender, ethnicity, religion, and other cultural influences (e.g., media). We analyze the role of dress within small and large groups uncovering how decisions made about dressing the body reflect and are shaped by many factors, including beliefs about aesthetics, technological development, social structures, and value systems. Readings provide opportunities to analyze similarities and differences among groups.
Grading: 20% - In-class discussion leadership/participation 40% - Encyclopedia article 20% - Book review 20% - In-class Power Point presentations (2)

ApSt 8272 Multichannel Consumers: Theories in Retail and Consumer Studies
A-F only, 3 credit(s);
Instructor: Im, Hyunjoo
Description: Graduate seminar. A review of a range of critical theories in retail/consumer studies to explore issues in multi-channel retailing environments. Exposure to breadth of topics in multi-channel retailing. Practical research experience.

Applied Business 20 Ruttan Hall

ABus 3051 Career Skills in the Professional Environment
2 credit(s);
Instructor: Bonderson, Lori
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, but will also participate as part of a small group. Visit "Class URL" for ODL policy, fee, and financial aid restrictions. Career planning and job search processes appropriate to business/professional careers. Exploring career options: career centers, company research and networking. Resume and cover letter writing. Job interview preparation. Organizational culture, transition from college to work, and job satisfaction.
Style: Online
Grading: See attached syllabus
Exam Format: no exams

ABus 3301 Introduction to Quality Management
A-F only, 3 credit(s);
Instructor: Martens, Scott L
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. Principles and concepts of managing quality in the context of a broad range of business applications, with major focus on Six Sigma process improvement methodology. Looks at Baldrige Award, ISO 9000, process control, and performance measurement systems. Explores change management, quantifying opportunities, and cost benefit analysis, all of which are applicable to an array of employment sectors such as service, nonprofit, and government.
Style: Online
Grading: See attached syllabus

ABus 4022 Management in Organizations
A-F only, 3 credit(s);
Instructor: Haarklau, Evon 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: Online
Grading: See attached syllabus
ABus 4023W Communicating for Results  
**A-F only, 3 credit(s); Meets CLE req of Writing Intensive**  
**Instructor:** Lowry, Ann E.  
**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. Aspects of communication essential for being persuasive and influential. Organizing and presenting ideas effectively, strategies for audience analysis, choosing communication methods, making appropriate use of informal influence methods, and handling dissent. Processes for intercultural communication.  
**Style:** Online  
**Grading:** See attached syllabus

ABus 4041 Dynamics of Leadership  
**A-F only, 3 credit(s);**  
**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:** Online  
**Grading:** See attached syllabus

ABus 4101 Accounting and Finance for Managers  
**A-F only, 3 credit(s);**  
**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. You will look at your career from a new perspective, and increase your contribution to the bottom line, whatever your role. Accounting is the language of business, and finance is not very far behind. Learn to talk the talk and make effective financial contributions. You will learn a variety of basic scenarios using accounting and finance models and the knowledge and tools for applying them to a particular business sector: retail, manufacturing, government, hospitality, non-profit, medical, construction.  
**Style:** Online  
**Grading:** See attached syllabus

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

ABus 4151 Innovation for Leaders and Organizations  
**A-F only, 3 credit(s);**  
**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 restrictions. Innovation as a cornerstone of a knowledge economy. History and value of the innovation process, and importance to individuals and organizations. Strategies to foster personal and collaborative innovation. Responsibilities in personal innovation skill-building and leading innovation in organizations.  
**Style:** Online  
**Grading:** See attached syllabus

ABus 4509 New Product Development  
**A-F only, 3 credit(s);**  
**Instructor:** McClernon, Susan Elizab
**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 course will explore how new consumer, industrial, and service products are planned and developed. It will examine idea generation, concept and buyer testing, pricing, sales and profit strategies, product positioning techniques, promotion, packaging and distribution considerations from a new product development perspective, using marketing case histories and student project work.

**Style:** Online

**Grading:** See attached syllabus

**ABus 4515 Strategy and Management for a Sustainable Future**
A-F only, 3 credit(s);
**Instructor:** Hickle, Garth Thomas

**Description:** This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Explore the meaning and importance of sustainability in business. Characteristics of sustainable environments and their relationship to organizations. Potential economic and strategic enterprise value. Management and leadership to foster and support sustainability. Relationship of sustainable business practices to marketplace trends and realities.

**Style:** Online

**Grading:** See attached syllabus

**ABus 4571 Introduction to Grant Writing for Health Care and Nonprofit Organizations**
A-F only, 3 credit(s);
**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, including fee and financial aid restrictions. This course will provide you with the tools needed to research and write grants in today's funding and political climate. Today, decreasing government funding at the local, regional, state, and federal levels, along with decreasing traditional educational and other social service funding has resulted in an increased need for nonprofit groups to find new or additional financial support. At the same time, government and nonprofit foundations are significantly increasing support for targeted health care research funding. Students will learn the basics of grant writing, including how to identify potential funding sources, and respond to a Request for Proposal by creating a needs assessment, goal statement, budget, and grant funding plans.

**Style:** Online

**Grading:** See attached syllabus

**ABus 4701 Introduction to Marketing**
A-F only, 3 credit(s);
**Instructor:** Kaufmann, Geoff Laing

**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.

**Applied Economics  231 Ruttan Hall**

**ApEc 1101 Principles of Microeconomics**
4 credit(s); Credit will not be granted if credit has been received for: ECON 1101; Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
**Instructor:** Okediji, Tade O

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

**ApEc 1101 Principles of Microeconomics**
4 credit(s); Credit will not be granted if credit has been received for: ECON 1101; Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
**Instructor:** Okediji, Tade O

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

**ApEc 1102 Principles of Macroeconomics**
3 credit(s); 1101 or Econ 1101 no credit will be granted if credit has been received for: Econ 1102 or Econ
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);[1101 or 1101H or ECON 1101 or ECON 1101H, honorsCredit will not be granted if credit has been received for: APEC 1102;
Instructor: Ritter, Joe
Description:

ApEc 3001 Applied Microeconomics: Consumers, Producers, and Markets
4 credit(s);[1101 or ECON 1101 or 1101H or ECON 1101H], [MATH 1142 or MATH 1271] or instr consent ; intended for undergrads in [Ag/Food Bus Mgmt, Appl Econ]Credit will not be granted if credit has been received for: ECON 3101;
Instructor: Bellemare, Marc
Description: Student may contact the instructor or department for information.

ApEc 3002 Applied Microeconomics: Managerial Economics
4 credit(s);
Instructor: King, Robert P
Description: This course focuses on the application of microeconomic theory to managerial problems. Lectures, readings, problem sets, lab sessions, case studies, and discussions integrate theory and applications. Topics include: an introduction to regression analysis, demand analysis and demand function estimation, cost function estimation, resource allocation decisions, linear programming, market structure, pricing policy, risk analysis, and capital budgeting. This course is the second in a sequence that begins with ApEc 3001, "Consumers, Producers, and Markets". The primary audience for this course is undergraduate students majoring in Agricultural Business Management, Agricultural Industries and Marketing and Applied Economics.
Style: 40% Lecture, 10% Discussion, 50% Laboratory.
Grading: 30% mid exam, 20% final exam, 10% quizzes, 25% laboratory evaluation, 15% problem solving. There are two midterm exams. Each counts for 15% of the final grade.
Exam Format: Problems, short answer, short essay

ApEc 3006 Applied Macroeconomics: Government and the Economy
3 credit(s);[[1102 or Econ 1102], [3001 or Econ 3101]] or instr consent Credit will not be granted if credit has been received for: ECON 3102;
Instructor: Stinson, Thomas F
Description: This course is concerned mainly with aggregate economic activity. Major emphasis is on factors that determine 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. Implications of changes in government economic policies are considered.
Style: 100% Lecture.
Grading: 40% mid exam, 50% final exam, 10% problem solving.
Exam Format: essay

ApEc 3007 Applied Macroeconomics: Policy, Trade, and Development
3 credit(s);Meets CLE req of Global Perspectives
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 3061 Economic Development in Contemporary Africa**
3 credit(s); 1101 or ECON 1101 Credit will not be granted if credit has been received for: AFRO 3433; Meets CLE req of Global Perspectives
Instructor: Okediji, Tade O
Description: Student may contact the instructor or department for information.

**ApEc 3202 An Introduction to the Food System: Analysis, Management and Design**
3 credit(s);
Instructor: King, Robert P
Description: Student may contact the instructor or department for information.

**ApEc 3451 Food and Agricultural Sales**
3 credit(s);
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 3611W Environmental and Natural Resource Economics**
3 credit(s); Meets CLE req of Environment; meets CLE req of Writing Intensive
Instructor: Ruliffson, Jane Anne
Description: Student may contact the instructor or department for information.

**ApEc 3821 Retail Center Management**
3 credit(s);
Instructor: Nefstead, Ward Elliot
Description: Management of garden centers, grocery stores and other retail units selling perishable agricultural products. This course will involve accounting and management aspects of related retail business. Part of the class with focus on ecommerce applications. Group exercises and management cases/simulations will be used as well as assigned projects off campus.

**Style:** 70% Lecture, 15% Discussion, 15% Laboratory.

**Grading:** 20% mid exam, 35% final exam, 20% special projects, 10% laboratory evaluation, 15% problem solving.

**Exam Format:** Multiple choice, essay, short answer

**ApEc 3991 Independent Study in Applied Economics**
1-4 credit(s), max credits 12, 3 completions allowed;
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;
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 4311 Tourism Development: Principles, Processes, Policies**
3 credit(s);
Instructor: Gartner, Bill
Growth in tourism has led, in the last thirty-five years, to development consequences that are not always planned for, or welcome. This course begins by discussing a very popular concept, sustainable tourism development, and proposes a measurement model that takes it from the conceptual to application stage. The historical evolution of what is being called the tourism industry is examined, and the economic, environmental and socio-cultural impacts, both positive and negative, of tourism development are discussed in detail. Government policies and organizations that influence tourism development are examined, models used to plan for development are discussed and the tools needed for successful development are reviewed. Target audience for this course is centered on the upper level undergraduate and graduate student pool. The instructor will offer many real world examples from his international work including a case study assignment dealing with a National Park development plan in Zambia.

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

**Grading:** 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.

**Exam Format:** Essay

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### ApEc 4481 Futures and Options Markets

- **Credits:** 3 credit(s);
- **Prerequisites:** [3001 or Econ 3101], [AnSc 2211 or OMS 1550 or Stat 3011], 60 cr or instr consent
- **Description:** Credit will not be granted if credit has been received for: APEC 5481;
- **Instructor:** Bozic, Marin

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

### ApEc 4501 Financial Modeling

- **Type:** A-F only, 3 credit(s);
- **Instructor:** Lazarus, William Franklin

**Description:** The objective of the course is to give students experience in designing and implementing solutions to financial and management problems with the use of the advanced features of the Microsoft Excel spreadsheet software and its VBA programming language. 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.

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

**Grading:** 10% in-class presentation, 90% laboratory evaluation.

### ApEc 4821W Business Economics and Strategy

- **Credits:** 3 credit(s);
- **Instructor:** Cakir, Metin

**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 advanced features of the Microsoft Excel spreadsheet software and its VBA programming language. 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.

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

**Grading:** 10% in-class presentation, 90% laboratory evaluation.

### ApEc 5032 Economic Data Analysis for Managerial and Policy Decisions

- **Credits:** 3 credit(s);
- **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. Focus is on SAS programming. 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

- **Credits:** 3 credit(s);
- **Instructor:** Roe, Terry Lee

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

ApEc 5651 Economics of Natural Resource and Environmental Policy
3 credit(s); [[3001 or ECON 3101], [3611 or ECON 3611 or ESPM 3261]] or instr consent
Credit will not be granted if credit has been received for: PA 5722;
Instructor: Goodkind, Andrew Lloyd
Description: The course is designed to introduce students to how economists approach environmental problems and the use of natural resources. This includes examining methods to determine the 'right' amount of protection and utilization of environmental goods, and why environmental problems may require government intervention. Theory and practical implementation of regulations of pollution and extraction of renewable and non-renewable natural resources are discussed. Finally, students are exposed to methods of valuing non-market environmental resources.
Style: 80% Lecture, 20% Discussion.
Grading: 30% mid exam, 30% final exam, 35% written homework, 5% class participation.

ApEc 5811 Cooperative Organization
3 credit(s);
Instructor: Boland, Michael Aloysius
Description: In the first half of the semester we will look at specific cooperatives and their role in various industries across the world. I have written more than 80 case studies on food firms, many of which are cooperatives. The ones I anticipate using in the class include dried fruit (Sun-Maid Raisins), prunes (Sunsweet), dairy products (Land O'Lakes, Cass-Clay), coffee (Coopux in Brazil), citrus (Sunkist), dairy products (Colun in Chile), almonds (Blue Diamond), apple juice (Treetop), peaches (California Cling Peach Growers association), cranberries (Ocean Spray), rural utilities (rural electric cooperative), lamb (Mountain States Lamb Cooperative), sugar (American Crystal Sugar), ag inputs (CHS, Inc.), and grape (Welch?). In many cases, we will have a representative from the cooperative visiting with us by speaker phone or other technology. I anticipate that we will also collaborate with a similar class at Montana State, North Dakota State, and University of Idaho on a series of case studies.
Topical Content: Week 1: Introduction to Cooperatives and the ClassFocus on principles and application of principles Week 2: Principles of Cooperatives Week 3: Equity management and cooperative finance Week 4: What led to first cooperative and Rochdale Pioneers and similar activities in USA Week 5: History of Group Action Efforts in the USA leading up to Capper-Volstead Act of 1922 Week 6: Exam over Principles and how they have been applied Move to a discussion about how different public policies have helped cops in these industries flourish Week 7: Cooperatives in the Tree Fruit and Tree Nut industries in the USA Week 8: Cooperatives in the agricultural Input Supply industries in the USA Week 9: Cooperatives in the utility and credit industries in the USA Move to an application of principles and policies abroad Week 10: Cooperatives overseas: Latin American and European and Oceania experiences Week 11: Cooperatives overseas: African and Asian experiences Integrative discussion Weeks 12-15: student reports
Style: 20% Lecture, 50% Discussion, 10% Small Group Activities, 10% Guest Speakers.
Grading: I expect to have two exams, one report, and in-class discussion.
Exam Format: Writing exam (no multiple choice or true / false questions)

ApEc 5891 Independent Study: Advanced Topics in Farm and Agribusiness Management
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: STAFF
Description: Special topics or individual work.
Style: Varies/individuals approach
Grading: 100% other evaluation. Varies

ApEc 5991 Special Topics and Independent Study in Applied Economics
1-4 credit(s), max credits 12, 12 completions allowed;
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 8003 Applied Microeconomic Analysis of Game Theory and Information
 A-F only, 2 credit(s);
 Instructor: Polasky, Stephen
 Description: Student may contact the instructor or department for information.

ApEc 8004 Applied Microeconomic Analysis of Social Choice and Welfare
 A-F only, 2 credit(s);
 Instructor: Coggins, Jay S
 Description: Student may contact the instructor or department for information.

 3 credit(s);
 Instructor: Coggins, Jay S
 Description: Student may contact the instructor or department for information.

ApEc 8206 Dynamic Optimization: Applications in Economics and Management
 3 credit(s);
 Instructor: Homans, Frances Reed
 Description: Student may contact the instructor or department for information.

ApEc 8212 Econometric Analysis II
 4 credit(s);
 Instructor: Glewwe, Paul W
 Description: Student may contact the instructor or department for information.

ApEc 8403 Consumer Theory and Demand Analysis
 A-F only, 3 credit(s);
 Instructor: Beatty, Timothy KM
 Description: Student may contact the instructor or department for information.

ApEc 8501 Labor Economics I
 A-F only, 2 credit(s);
 Instructor: Ritter, Joe
 Description: Student may contact the instructor or department for information.

ApEc 8502 Labor Economics II
 A-F only, 2 credit(s);
 Instructor: Davis, Elizabeth E
 Description: Style: 50% Lecture, 20% Discussion, 30% Student Presentation.

ApEc 8702 Economic and Trade Policy: Sectoral and Institutional Issues
 3 credit(s);
 Instructor: Smith, Pamela Jane
 Description: Student may contact the instructor or department for information.

ApEc 8703 Microeconomic Analysis of Economic Development
 A-F only, 3 credit(s);
 Instructor: Glewwe, Paul W
 Description: Student may contact the instructor or department for information.

ApEc 8803 Marketing Economics
 A-F only, 2 credit(s);
 Instructor: Cakir, Metin
 Description: Student may contact the instructor or department for information.

ApEc 8902 Graduate Research Development Seminar
 S-N only, 1 credit(s);
 Instructor: Pederson, Glenn Darwin
ApEc 8902 Graduate Research Development Seminar  
S-N only, 1 credit(s);  
Instructor: Hurley,Terry  
Description: Student may contact the instructor or department for information.

ApEc 8904 PhD Qualifying Paper Seminar II  
S-N only, 1 credit(s);  
Instructor: Beatty,Timothy KM

ApEc 8991 Advanced Topics in Applied Economics  
1-6 credit(s), max credits 6;  
Instructor: Kleiner,Morris M

Applied Plant Sciences  411 Borlaug Hall

APSc 8123 Research Ethics in the Plant and Environmental Sciences  
S-N only, 0.5 credit(s); Grad student  
Credit will not be granted if credit has been received for: PLPA 8123;  
Instructor: Anderson,James Allan

Applied Professional Studies  20 Ruttan Hall

APS 5201 Career and Job Search Preparation for Graduate Students  
S-N only, 1 credit(s);  
Instructor: Okstad,Brian Clay

APS 8001 Introduction to Research in the Biological Sciences  
S-N only, 1 credit(s);  
Instructor: Wallace,Robert

APS 8002 Final Project Course for Plan B MBS Students  
S-N only, 2 credit(s);
Instructor: Schottel, Janet L
Description: Student may contact the instructor or department for information.

APS 8003 Capstone Course for Plan C MBS Students
S-N only, 2 credit(s);
Instructor: Fruen, Brad
Description: Student may contact the instructor or department for information.

APS 8110 Graduate Seminar Series
S-N only, 1 credit(s), max credits 10, 10 completions allowed;
Instructor: Schottel, Janet L
Description: Student may contact the instructor or department for information.

Arabic 220 Folwell Hall

Arab 1102 Beginning Arabic
5 credit(s); 1101 or instr consent Credit will not be granted if credit has been received for: ARAB 4102;
Instructor: Khalek, Hisham A
Description: Description: Beginning 1102 is the second in a sequence of Arabic courses designed to teach reading, writing, listening and speaking formal Arabic, also known as Modern Standard Arabic (MSA). The class continues to build upon and reinforce what was learned in 1101 with strong emphasis on learning basic communicative interactions. The course presents theme based topics aimed at delivering practical and functional material. 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: Marhaba by Hisham Khalek.
Style: 40% Lecture, 40% Discussion, 20% Small Group Activities. Culture.
Grading: 20% mid exam, 25% final exam, 15% quizzes, 15% written homework, 10% class participation, 15% laboratory evaluation, 20% homework.
Exam Format: Multiple choice and fill in the blank.

Arab 1102 Beginning Arabic
5 credit(s); 1101 or instr consent Credit will not be granted if credit has been received for: ARAB 4102;
Instructor: Ben Zahra, Saloua
Description: Description: Beginning 1102 is the second in a sequence of Arabic courses designed to teach reading, writing, listening and speaking formal Arabic, also known as Modern Standard Arabic (MSA). The class continues to build upon and reinforce what was learned in 1101 with strong emphasis on learning basic communicative interactions. The course presents theme based topics aimed at delivering practical and functional material. 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: Marhaba by Hisham Khalek.
Style: 40% Lecture, 40% Discussion, 20% Small Group Activities. Culture.
Grading: 20% mid exam, 25% final exam, 15% quizzes, 15% written homework, 10% class participation, 15% laboratory evaluation, 20% homework.
Exam Format: Multiple choice and fill in the blank.

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

Arab 3102 Intermediate Arabic
5 credit(s); 3101 or instr consent Credit will not be granted if credit has been received for: ARAB 4122;
Instructor: Ben Zahra, Saloua
Description: Arabic 3102 is a continuation of Arabic 3101. It is designed to further develop language proficiency in modern standard Arabic in the four language skills. In speaking, the focus is on the use of everyday expressions through discussion and presentations. In reading, the focus is on reading authentic text material. Writing is emphasized especially through writing compositions and homework assignments. Listening exercises and drills are utilized in class by listening to web-based recordings and in the language lab by practicing interactive Arabic drills. In addition, students will further develop and enhance their knowledge of the culture of the Arab world. The target audience is undergraduate and graduate students.
Style: 25% Lecture, 10% Film/Video, 25% Discussion, 10% Laboratory, 20% Small Group Activities, 10% Student Presentation.
Grading: 25% mid exam, 25% final exam, 15% reports/papers, 15% written homework, 10% in-class presentation, 10%
Arab 3102 Intermediate Arabic
5 credit(s); 3101 or instr consent Credit will not be granted if credit has been received for: ARAB 4122;
Instructor: Mohammed,Sidow Abdishariff
Description: Arabic 3102 is a continuation of Arabic 3101. It is designed to further develop language proficiency in modern standard Arabic in the four language skills. In speaking, the focus is on the use of everyday expressions through discussion and presentations. In reading, the focus is on reading authentic text material. Writing is emphasized especially through writing compositions and homework assignments. Listening exercises and drills are utilized in class by listening to web-based recordings and in the language lab by practicing interactive Arabic drills. In addition, students will further develop and enhance their knowledge of the culture of the Arab world. The target audience is undergraduate and graduate students.
Style: 25% Lecture, 10% Film/Video, 25% Discussion, 10% Laboratory, 20% Small Group Activities, 10% Student Presentation.
Grading: 25% mid exam, 25% final exam, 15% reports/papers, 15% written homework, 10% in-class presentation, 10% class participation. Multiple choice, fill in the blanks and inference from reading short articles and listening to Arabic excerpts.

Arab 3290 Arabic Language Teaching Tutorial
S-N only, 1 credit(s), max credits 2;
Instructor: Khalek,Hisham A
Description: Student may contact the instructor or department for information.

Arab 4102 Beginning Arabic
3 credit(s); [4101 or equiv], grad student Credit will not be granted if credit has been received for: ARAB 1102;
Instructor: Khalek,Hisham A
Description: Description: Beginning 1102 is the second in a sequence of Arabic courses designed to teach reading, writing, listening and speaking formal Arabic, also known as Modern Standard Arabic (MSA). The class continues to build upon and reinforce what was learned in 1101 with strong emphasis on learning basic communicative interactions. The course presents theme based topics aimed at delivering practical and functional material. 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: Marhaba by Hisham Khalek.
Style: 40% Lecture, 40% Discussion, 20% Small Group Activities. Culture.
Grading: 20% mid exam, 25% final exam, 15% quizzes, 15% written homework, 10% class participation, 15% laboratory evaluation. 20% homework.
Exam Format: Multiple choice and fill in the blank.

Arab 4102 Beginning Arabic
3 credit(s); [4101 or equiv], grad student Credit will not be granted if credit has been received for: ARAB 1102;
Instructor: Ben Zahra,Saloua
Description: Description: Beginning 1102 is the second in a sequence of Arabic courses designed to teach reading, writing, listening and speaking formal Arabic, also known as Modern Standard Arabic (MSA). The class continues to build upon and reinforce what was learned in 1101 with strong emphasis on learning basic communicative interactions. The course presents theme based topics aimed at delivering practical and functional material. 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: Marhaba by Hisham Khalek.
Style: 40% Lecture, 40% Discussion, 20% Small Group Activities. Culture.
Grading: 20% mid exam, 25% final exam, 15% quizzes, 15% written homework, 10% class participation, 15% laboratory evaluation. 20% homework.
Exam Format: Multiple choice and fill in the blank.

Arab 4102 Beginning Arabic
3 credit(s); [4101 or equiv], grad student Credit will not be granted if credit has been received for: ARAB 1102;
Instructor: Hamouchi,Abdelkader
Description: Student may contact the instructor or department for information.

Arab 4122 Intermediate Arabic
3 credit(s); [4121 or equiv], grad student Credit will not be granted if credit has been received for: ARAB 3102;
Instructor: Ben Zahra,Saloua
Description: Arabic 3102 is a continuation of Arabic 3101. It is designed to further develop language proficiency in modern standard Arabic in the four language skills. In speaking, the focus is on the use of everyday expressions through discussion
and presentations. In reading, the focus is on reading authentic text material. Writing is emphasized especially through writing compositions and homework assignments. Listening exercises and drills are utilized in class by listening to web-based recordings and in the language lab by practicing interactive Arabic drills. In addition, students will further develop and enhance their knowledge of the culture of the Arab world. The target audience is undergraduate and graduate students.

**Style:** 30% Lecture, 30% Discussion, 10% Laboratory, 20% Small Group Activities, 10% Student Presentation.

**Grading:** 25% mid exam, 25% final exam, 15% reports/papers, 15% written homework, 10% in-class presentation, 10% class participation. Multiple choice, fill in the blanks and inference from reading short articles and listening to Arabic excerpts.

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**Arab 4122 Intermediate Arabic**

* 3 credit(s); [4121 or equiv], grad student

*Credit will not be granted if credit has been received for: ARAB 3102;*

*Instructor:* Mohammed, Sidow Abdishariff

**Description:** Arabic 3102 is a continuation of Arabic 3101. It is designed to further develop language proficiency in modern standard Arabic in the four language skills. In speaking, the focus is on the use of everyday expressions through discussion and presentations. In reading, the focus is on reading authentic text material. Writing is emphasized especially through writing compositions and homework assignments. Listening exercises and drills are utilized in class by listening to web-based recordings and in the language lab by practicing interactive Arabic drills. In addition, students will further develop and enhance their knowledge of the culture of the Arab world. The target audience is undergraduate and graduate students.

**Style:** 30% Lecture, 30% Discussion, 10% Laboratory, 20% Small Group Activities, 10% Student Presentation.

**Grading:** 25% mid exam, 25% final exam, 15% reports/papers, 15% written homework, 10% in-class presentation, 10% class participation. Multiple choice, fill in the blanks and inference from reading short articles and listening to Arabic excerpts.

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**Arab 5102 Advanced Arabic**

* 3 credit(s), max credits 4, 1 completion allowed;

*Instructor:* Khalek, Hisham A

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

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**Architecture 110 Rapson Hall**

**Arch 2281 Design Fundamentals II**

* A-F only, 4 credit(s);

*Instructor:* Johnson, Andrea J

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

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**Arch 2301 Introduction to Drawing in Architecture**

* A-F only, 4 credit(s); pre-arch major or BDA major; no prereq in summer credit will not be granted if credit received for: Arch 1301 Credit will not be granted if credit has been received for: LA 5301;

*Instructor:* STAFF

**Description:** This course is meant to introduce an architectural way of visual thinking. It is also intended to familiarize the students with basic concepts of visual notation, techniques, and skills. The educational objectives of Arch 1301 are to enhance students' abilities to see visual phenomena such as space, light, and/or form; to teach students how to combine seeing with drawing in the way that is specific to the discipline and profession of architecture; to introduce drawing as a process of visual exploration; to introduce architectural concepts and systems of visual notations and the basic drawing skills and techniques (free-hand sketching and hard-line drafting). Note: Requirements may vary depending on the instructor who teaches a particular section.

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

**Grading:** 20% class participation. 60% three graded reviews; 20% final assignment

**Exam Format:** review of drawing

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**Arch 3150 Topics in Architecture**

* 3 credit(s), max credits 24, 4 completions allowed;

*Instructor:* Delwiche, Benjamin Lee

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

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**Arch 3250 Design Workshop**

* A-F only, 4 credit(s), max credits 18, 9 completions allowed;

*Instructor:* Roe, Sharon Louise

**Description:** Student may contact the instructor or department for information.
Arch 3250 Design Workshop
A-F only, 2 credit(s), max credits 18, 9 completions allowed;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop
A-F only, 3 credit(s), max credits 18, 9 completions allowed;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop
A-F only, 3 credit(s), max credits 18, 9 completions allowed;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop
A-F only, 2 credit(s), max credits 18, 9 completions allowed;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop
A-F only, 4 credit(s), max credits 18, 9 completions allowed;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop
A-F only, 3 credit(s), max credits 18, 9 completions allowed;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop
A-F only, 3 credit(s), max credits 18, 9 completions allowed;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

Arch 3250 Design Workshop
A-F only, 4 credit(s), max credits 18, 9 completions allowed;
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

Arch 3282 Undergraduate Architecture Studio II
A-F only, 6 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

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

Arch 3412 Architectural History Since 1750
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Solomonson,Katherine Mary
Description: History of Architecture of Since 1750 investigates buildings, landscapes, and cities during three centuries of dynamic change. Central to the course are questions concerning the interplay between the built environment, architectural theory, and shifting cultural, social, political, and economic conditions. Although the course focuses on structures and sites located in the United States and Europe, it also explores cross-cultural interactions across five continents. Students will develop a knowledge of significant concepts, structures, and sites; a working vocabulary of architectural terminology; the ability to analyze architecture through written work and discussion; and a framework for continued learning. This course is geared toward students in all fields as well as toward students specializing in architecture. Although it is the second part of a two-semester survey, there are no prerequisites and students who have no previous background in architecture are welcome.
Style: 66% Lecture, 33% Discussion.
Grading: 25% mid exam, 30% final exam, 25% reports/papers, 20% quizzes.

Arch 3412H Honors: Architectural History Since 1750
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Solomonson,Katherine Mary
Description: History of Architecture of Since 1750 investigates buildings, landscapes, and cities during three centuries of dynamic change. Central to the course are questions concerning the interplay between the built environment, architectural theory, and shifting cultural, social, political, and economic conditions. Although the course focuses on structures and sites located in the United States and Europe, it also explores cross-cultural interactions across five continents. Students will develop a knowledge of significant concepts, structures, and sites; a working vocabulary of architectural terminology; the ability to analyze architecture through written work and discussion; and a framework for continued learning. This course is geared toward students in all fields as well as toward students specializing in architecture. Although it is the second part of a two-semester survey, there are no prerequisites and students who have no previous background in architecture are welcome.
Style: 66% Lecture, 33% Discussion.
Grading: 25% mid exam, 30% final exam, 25% reports/papers, 20% quizzes.

Arch 3611 Design in the Digital Age
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ARCH 5611;
Instructor: Andersen, Lee D
Description: Student may contact the instructor or department for information.

Arch 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6; Meets CLE req of Arts/Humanities
Instructor: Roe, Sharon Louise
Description: Student may contact the instructor or department for information.

Arch 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6; Meets CLE req of Arts/Humanities
Instructor: Lutz, Jim
Description: Student may contact the instructor or department for information.

Arch 4150 Topics in Architecture
A-F only, 3 credit(s), max credits 24, 6 completions allowed;
Instructor: McQuade, Martha Wilha
Description: Student may contact the instructor or department for information.

Arch 4150 Topics in Architecture
A-F only, 3 credit(s), max credits 24, 6 completions allowed;
Instructor: Korab, Christian
Description: Student may contact the instructor or department for information.

Arch 4150 Topics in Architecture
A-F only, 3 credit(s), max credits 24, 6 completions allowed;
Architecture has always been a type of problem solving, using form and space to respond to the wants and needs of its users. Architects practicing in the new millennium, however, will need to successfully address a set of issues that go far beyond simply meeting the requirements of their clients' programs. As educator, environmentalist, and author David Orr has written, "The challenge of the twenty-first century requires that we make a transition to a new order of things that can be sustained within the limits of natural systems." The three centuries worth of revolutionary technological developments that have occurred since the beginning of the Industrial Revolution have also produced a new range of environmental challenges for designers. Global climate change and its myriad implications, dependence upon petroleum and other non-renewable energy sources, and growing demands placed on finite resources by unprecedented population growth, among many other pressing concerns, may all be viewed as the collateral effects of the Modern lifestyle we have created.

Environmental issues are complex. Finding solutions to these environmental issues will require vigorous debate of the myriad solutions; weighing the costs with the benefits and tradeoffs among alternative policies and practices; exploring the roles of science and technology; and learning to become involved, informed, and constructive citizens and designers. While the task of successfully responding to these issues may seem daunting, it also presents a unique opportunity to fundamentally reshape the art and science of architecture. What new skills and knowledge will architects need to meet the demands of these times? What are the most pressing environmental issues of our age and what roles can designers play in resolving them? How do we achieve a balance between the natural and built environments? These are among the questions that this course will seek to address as an introduction to the theories and practices of sustainable design.

**Style:** 55% Lecture, 25% Laboratory, 20% Guest Speakers.

**Grading:** 25% mid exam, 25% final exam, 25% special projects, 12% quizzes, 13% written homework. Unexcused absences will incur a 3.33% drop in final semester grade.

**Exam Format:** The midterm and final exams are a combination of T/F, multiple choice, and short answer questions.
Instructor: Johnson, Andrea J
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;
Instructor: Dunne, Lucy Elizabeth
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;
Instructor: Lutz, Jim
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;
Instructor: Brownell, Blaine Erickson
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;
Instructor: Kudrowitz, Barry
Description: Student may contact the instructor or department for information.

Arch 5250 Advanced Topics in Design
A-F only, 4 credit(s), max credits 10, 4 completions allowed;
Instructor: Amel, Eric
Description: Student may contact the instructor or department for information.

Arch 5250 Advanced Topics in Design
A-F only, 4 credit(s), max credits 10, 4 completions allowed;
Instructor: Garrett, James T
Description: Student may contact the instructor or department for information.

Arch 5250 Advanced Topics in Design
A-F only, 4 credit(s), max credits 10, 4 completions allowed;
Instructor: Hadziomerovic, Dzenita
Description: Student may contact the instructor or department for information.

Arch 5250 Advanced Topics in Design
A-F only, 4 credit(s), max credits 10, 4 completions allowed;
Instructor: Beaubien, Kendra Lynn
Description: Student may contact the instructor or department for information.

Arch 5250 Advanced Topics in Design
A-F only, 4 credit(s), max credits 10, 4 completions allowed;
Instructor: Lazor, Charles Lawrence
Description: Student may contact the instructor or department for information.

Arch 5250 Advanced Topics in Design
A-F only, 4 credit(s), max credits 10, 4 completions allowed;
Instructor: Johnson, Mic
Description: Student may contact the instructor or department for information.

Arch 5250 Advanced Topics in Design
A-F only, 4 credit(s), max credits 10, 4 completions allowed;
Instructor: Hsieh, Lisa L.
Description: Student may contact the instructor or department for information.

Arch 5301 Conceptual Drawing
Arch 5424 Renaissance Architecture
A-F only, 3 credit(s); MS Arch or M Arch major or instr consent Credit will not be granted if credit has been received for: ARCH 4424;
Instructor: Satkowski, Leon
Description: The course addresses architecture in Italy from 1400 to 1600. It focuses on the works of individual architects (Brunelleschi, Alberti, Bramante, Michelangelo, Palladio), the development of specific building types (palaces, villas, longitudinal and centrally-planned churches), urban elements (squares and streets, fortifications), and the evolution of major cities (Florence, Rome, Venice). Two exams and a major research paper.

Arch 5441 Minnesota: Architecture and Landscapes
A-F only, 3 credit(s); [3411, 3412] recommended Credit will not be granted if credit has been received for: ARCH 4441;
Instructor: Satkowski, Leon
Description: Student may contact the instructor or department for information.

Arch 5450 Topics in Architectural Theory
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Lutz, Jim
Description: Student may contact the instructor or department for information.

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

Arch 5539 Daylighting and Architecture Design
A-F only, 4 credit(s);
Instructor: Guzowski, Mary M
Description: Student may contact the instructor or department for information.

Arch 5550 Topics in Technology
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Rose, Fred Anthony
Description: Student may contact the instructor or department for information.

Arch 5611 Design in the Digital Age
A-F only, 3 credit(s); Grad student or upper level undergrad student Credit will not be granted if credit has been received for: ARCH 3611;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Arch 5650 Topics in Architectural Practice
3 credit(s), max credits 16, 4 completions allowed;
Instructor: Delwiche, Benjamin Lee
Description: Student may contact the instructor or department for information.

Arch 5651 Building Stories
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Cook, John Thomas
Description: Student may contact the instructor or department for information.

Arch 5670 Topics in Historic Preservation
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Chen, Arthur Hui-Min
Arch 5670 Topics in Historic Preservation
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Waugh, Philip Logan
Description: Student may contact the instructor or department for information.

Arch 5673 Historic Property Research and Documentation
3 credit(s);
Instructor: Grover, Todd Andreas
Description: Building documentation, survey, and the National Register of Historic Places help form the foundation of the historic preservation profession in the United States. This class will teach historic property researching skills using primary, secondary, and peripheral sources at archives around the Twin Cities. The research will be applied in a complete National Register of Historic Places nomination form. Students will also learn how to measure buildings and draft plans using the HABS/HAER documentation system. Finally, students will learn the process for architectural/historic survey and will organize and conduct a survey of the Whittier neighborhood in Minneapolis. Material is presented through illustrated lectures, guest lecturers, related field trips/work, and class discussion. Topics covered include: primary research, National Register of Historic Places, architectural/historic surveys, historic context studies, building documentation, and fieldwork around the Twin Cities.

Arch 5711 Theory and Principles of Urban Design
A-F only, 3 credit(s);
Instructor: Conway, William F
Description: Student may contact the instructor or department for information.

Arch 5721 Case Studies in Urban Design
A-F only, 3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: LA 5721;
Instructor: Jara, Cynthia
Description: Student may contact the instructor or department for information.

Arch 5750 Topics in Urban Design
A-F only, 4 credit(s), max credits 16, 4 completions allowed;
Instructor: Robinson, Julia Williams
Description: Student may contact the instructor or department for information.

Arch 5750 Topics in Urban Design
A-F only, 4 credit(s), max credits 16, 4 completions allowed;
Instructor: Chen, Arthur Hui-Min
Description: Student may contact the instructor or department for information.

Arch 5750 Topics in Urban Design
A-F only, 1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: Wheeler, James Anthony
Description: Student may contact the instructor or department for information.

Arch 5750 Topics in Urban Design
A-F only, 3 credit(s), max credits 16, 4 completions allowed;
Instructor: Rybak, Raymond "R.T." Thomas
Description: Student may contact the instructor or department for information.

Arch 5993 Directed Study
A-F only, 1-4 credit(s), max credits 8;
Instructor: Fisher, Thomas Ray
Description: Student may contact the instructor or department for information.

Arch 5993 Directed Study
A-F only, 1-4 credit(s), max credits 8;
Instructor: Huelman, Patrick Henry
Description: Student may contact the instructor or department for information.
Arch 5993 Directed Study
A-F only, 1-4 credit(s), max credits 8;
Instructor: Johnson, Andrea J
Description: Student may contact the instructor or department for information.

Arch 5993 Directed Study
A-F only, 1-4 credit(s), max credits 8;
Instructor: Comazzi, John Joseph
Description: Student may contact the instructor or department for information.

Arch 5993 Directed Study
A-F only, 1-4 credit(s), max credits 8;
Instructor: Lutz, Jim
Description: Student may contact the instructor or department for information.

Arch 8299 Master's Final Project
S-N only, 10 credit(s);
Instructor: Lindt, Gayla Jean
Description: Style: 100% Studio.

Arch 8565 Materials Performance in Sustainable Building
A-F only, 3 credit(s);
Instructor: Brownell, Blaine Erickson
Description: Student may contact the instructor or department for information.

Art
Regis Center for Art

ArtS 1001 Introduction to Contemporary Art and Theory
4 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
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 1004 Artistic Interpretation from Vintage Cinema
S-N only, 3 credit(s), max credits 4, 1 completion allowed;
Instructor: Pope, Nicholas B
Description: Art from Cinema: Artistic Interpretation from Vintage Cinema Students will view twelve powerful and rarely seen vintage films from different time periods and cultures, discuss the films, and record their responses to each film in an accordion style mole-skin fold-out book. The book itself is the primary project of the class and will be not only an ongoing visual diary, but will become a beautiful work of art. Many of the movies shown are not commonly known, but have been nominated or won Academy Awards or other significant awards. No drawing experience or ability necessary.

ArtS 1101 Drawing
4 credit(s); Credit will not be granted if credit has been received for: ARTS 2101; Meets CLE req of Arts/Humanities
Instructor: STAFF
Description: Introduction to fundamental principles and processes of drawing; exploration of various drawing media. Work from still life, nature, the life model, and imagination.

ArtS 1102 Painting
4 credit(s); 1101 or 2101 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 2102;
Instructor: STAFF
Description: Introduction to painting with attention to understanding and applying the fundamental principles of spatial organization and color interaction.

ArtS 1301 Sculpture
4 credit(s); Credit will not be granted if credit has been received for: ARTS 2301; Meets CLE req of Arts/Humanities
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); Credit will not be granted if credit has been received for: ARTS 2501; Meets CLE req of Arts/Humanities
Instructor: STAFF
Description: 1501-005 Introduction to Printmaking: Intaglio and Lithography. This is an introductory course that explores the concepts and techniques of intaglio and litho processes. 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 Processes
4 credit(s); Credit will not be granted if credit has been received for: ARTS 2502; Meets CLE req of Arts/Humanities
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 Experimental and Media Arts
4 credit(s); Credit will not be granted if credit has been received for: ARTS 2601; Meets CLE req of Arts/Humanities
Instructor: STAFF
Description: ArtS 1601 Experimental and Media Arts, is an introduction to new forms and practices in media arts with a focus on sound and video. As a studio arts course students will produce three to five short projects that allow them to build technical, aesthetic and critical skills in the field. New Media concepts are presented through readings, screenings and discussion and include; remediation and remixing of images and sounds culled from a variety of cultural sources, artistic interventions into urban spaces, recent developments in internet art practices and conceptually based media art work. Presentation, critique and discussion of student projects are the primary means by which students develop greater insight into and critical analysis of artistic processes and cultural interpretations of new media art practices. Short writing assignments in response to reading and viewing assignments are included. Students are evaluated on assigned art projects, participation in critiques and discussions and short writing assignments
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); Credit will not be granted if credit has been received for: ARTS 2701; Meets CLE req of Arts/Humanities
Instructor: STAFF
Description: Course presents conceptual, technical, and historical aspects of photography within the fine arts context. Emphasis on the creative process through hands-on experience in use of camera, film development, enlarging, and printing. Silver processes. Student needs a 35mm, single lens reflex film camera.
Style: 25% Lecture, 25% Discussion, 50% Laboratory.
Grading: 15% mid exam, 30% final exam, 20% in-class presentation, 25% laboratory evaluation, 10% problem solving.
Exam Format: performance

ArtS 1703 Digital Photography
4 credit(s); credit will not be granted if credit already received for: ArtS 1702/ArtS 2702 Credit will not be granted if credit has been received for: ARTS 2703; Meets CLE req of Arts/Humanities
Instructor: STAFF
Description: Introduction to conceptual, technical and historical aspects of photography as a creative medium using digital technology. Digital image capture, related software, digital output and studio procedures. Historical issues, contemporary practice.

ArtS 1801 Ceramics
4 credit(s); Credit will not be granted if credit has been received for: ARTS 2801; Meets CLE req of Arts/Humanities
Instructor: STAFF
Description: Fundamentals of wheel-thrown and hand-built ceramics as forms of creative expression. Introduction to clay,
ArtS 2101 Drawing
A-F only, 4 credit(s);
Intended or declared art major or minor
Credit will not be granted if credit has been received for: ARTS 1101;
Meets CLE req of Arts/Humanities
Instructor: Morgan, Clarence E.
Description: Student may contact the instructor or department for information.

ArtS 2102 Painting
A-F only, 4 credit(s);
1101 or 2101, intended or declared art major
Credit will not be granted if credit has been received for: ARTS 1102;
Instructor: Austen, Hartmut
Description: Student may contact the instructor or department for information.

ArtS 2301 Sculpture
A-F only, 4 credit(s);
Intended or declared art major or minor
Credit will not be granted if credit has been received for: ARTS 1301;
Meets CLE req of Arts/Humanities
Instructor: Stanislav, Andrea Christine
Description: Student may contact the instructor or department for information.

ArtS 2501 Printmaking: Intaglio and Lithography
A-F only, 4 credit(s);
Intended or declared art major or minor
Credit will not be granted if credit has been received for: ARTS 1501;
Meets CLE req of Arts/Humanities
Instructor: Satinover, Nicholas Henri
Description: Student may contact the instructor or department for information.

ArtS 2701 Photography
A-F only, 4 credit(s);
Intended or declared art major or minor
Credit will not be granted if credit has been received for: ARTS 1701;
Meets CLE req of Arts/Humanities
Instructor: Henkel, James V
Description: Description: Course presents conceptual, technical, and historical aspects of photography within the fine arts context. Emphasis on the creative process through hands-on experience in use of camera, film development, enlarging, and printing. Silver processes. Student needs a 35mm, single lens reflex film camera. Materials for this class can be $150 Class Time: 25% Lecture, 25% Discussion, 50% Laboratory. Work Load: 1 exams. students will be need to attend approximately 4 hours of open lab sessions in order to complete thier work. Grade: 15% mid exam, 30% final exam, 20% in-class presentation, 25% laboratory evaluation, 10% problem solving. Exam Format: performance Instructor: STAFF

ArtS 2703 Digital Photography
A-F only, 4 credit(s);
Intended or declared art major or minor
Credit will not be granted if credit already received for: ArtS 1702/ArtS 2702
Credit will not be granted if credit has been received for: ARTS 1703;
Meets CLE req of Arts/Humanities
Instructor: Shambroom, Paul Dennis
Description: 2703 Course Guide This class is specifically geared to current or intended art majors or minors. Photography is a means of understanding and interacting with both the world and the inner self. This is an art class first, not just a technology class. It is not simply ?Photoshop Basics? or ?How to Use your Digital Camera?, although those things will be covered. We will emphasize a balance of technical skills, exploration of personal vision, and development of critical thinking and vocabulary relating to photography. We will examine the changing role of digital image production and distribution in society. Our own image making will be considered in the context of photographic history, visual literacy, and the universe of imagery in which we live. Projects will be completed with manually-controlled advanced digital cameras as well as cell phone cameras, and found images. Objectives and methods: Class activities will consist of lectures and demonstrations, individual and group exercises, lab time, and visiting artists and field trips. The core of this class is a series of photographic assignments. While some will have a technical basis, all work should be approached in the service of creative expression and exploration. Students? work will be constructively discussed in class and small group critique sessions. Students will learn the basics of advanced digital camera operation. You will learn to make informed photographic choices over composition, moment, light, and subject. We will master hardware and software tools, and learn color management and workflow principles. We will cover refined digital capture, image adjustment/manipulation and inkjet printing methods using Photoshop and Adobe Camera Raw. We will produce both print and screen-based projects. We will have a range of prior experience within our class, students will share their particular expertise through presentations, research and informal teamwork. Class readings and discussions will address digital photography issues such as: privacy, veracity, democracy, and authorship. You will become conversant in the history and contemporary practice of photography, and will develop critical thought and language for discussing and evaluating your own (and others?) photographs. The written assignments consist of a research outline and presentation, as well as response papers to readings, and gallery field trips Evaluations
will be based on group critiques of photographic work, written work and presentations, and participation. Grading is done on Moodle with rubric clearly laying out criteria. Each student should have a manually-controlled advanced digital camera (not point-and-shoot.) We will also do projects using cell phone cameras and found images. You should expect to spend at least 4 hours outside of class time per week for shooting, lab work, research.

**Grading:** 15% reports/papers, 15% in-class presentation, 70% other evaluation. 70% of the grade is based on photographic assignment work. A Moodle rubric will be used showing clear grading criteria. Percentages above are approximate and subject to change as shown on final class syllabus.

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**ArtS 2801 Ceramics**

A-F only, 4 credit(s); Intended or declared art major or minor
Credit will not be granted if credit has been received for: ARTS 1801; Meets CLE req of Arts/Humanities
Instructor: Pharis, Mark W
Description: Student may contact the instructor or department for information.

**ArtS 3101 Intermediate Drawing**

4 credit(s);
Instructor: Bussey, Margaret Barten
Description: Student may contact the instructor or department for information.

**ArtS 3101 Intermediate Drawing**

4 credit(s);
Instructor: Zefeldt, Matthew James
Description: Student may contact the instructor or department for information.

**ArtS 3102 Intermediate Painting**

4 credit(s);
Instructor: Lyon, Joyce
Description: Student may contact the instructor or department for information.

**ArtS 3105 Dimensional Painting**

4 credit(s);
Instructor: Feinberg, David L
Description: Student may contact the instructor or department for information.

**ArtS 3111 Life Drawing I**

4 credit(s);
Instructor: Peterson, Lamar
Description: Student may contact the instructor or department for information.

**ArtS 3112 Life Drawing II**

4 credit(s);
Instructor: Peterson, Lamar
Description: Student may contact the instructor or department for information.

**ArtS 3300 Intermediate Sculpture**

4 credit(s);
Instructor: Rose, Thomas Albert
Description: Student may contact the instructor or department for information.

**ArtS 3303 Sculpture: Metalcasting**

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

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

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

**Exam Format:** Individual and group critique

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**ArtS 3304 Sculpture: Carving and Construction**

- **4 credit(s);**
- **Instructor:** Stanislav, Andrea Christine
- **Description:** Student may contact the instructor or department for information.

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**ArtS 3401W Critical Theories and Their Construction From a Studio Perspective**

- **3 credit(s);** Meets CLE req of Arts/Humanities; meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
- **Instructor:** Schmid, Christina Heidi
- **Description:** This course aims to involve students in critical ideas and theories relevant to the practice of contemporary art. The class begins with essays that analyze the significance of aesthetic experience. Why do we look at and make art? What makes the encounter with materials, ideas, and representations worthwhile? Understanding the aesthetic experience as a disturbance, the course investigates three sites of such disturbances. In No More Heroes: The Aesthetics of Failure, we examine artists' recent fascination with deviating from conventional narratives of success and accomplishment. Instead, they embrace futility, pirate practice, and bumbling as their preferred modus operandi. The second site of aesthetic disturbance, the class examines revolves around the much-contested boundary between the human and the animal. This precariously divided address in the section From Bambi to Sponge Bob: Animals in Art. The last section of Critical Theories, Falling into Place, poses questions the way we experience, represent, and make sense of place and landscape. The course includes presentations and discussions on contemporary art and theory, writing workshops and instruction, and classroom visits by artists whose work pertains to the subjects discussed. As a writing intensive course, ArtS3401W: Critical Theories emphasizes writing as a multi-purpose tool for making sense of and with art.

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**ArtS 3444 Major Project**

- **S-N only, 1 credit(s);**
- **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. These meetings include presentations and discussions on contemporary art and theory, writing workshops and instruction, and classroom visits by artists whose work pertains to the subjects discussed. As a writing intensive course, students must complete the Major Project Proposal Contract available from the Art Advising Office, E223 Regis Center.

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**ArtS 3490 Workshop in Art: Introduction to Aesthetics**

- **3 credit(s), max credits 12, 3 completions allowed;**
- **Instructor:** Estep, Jan
- **Description:** Introduction to Aesthetics is a discussion-based course designed around key texts written about art by philosophers, contemporary critics, and artists. It is a broad introduction to issues in the philosophy of art. Particular attention will be paid to the problem of realism and mimesis, to intention, interpretation and meaning, to perception and embodied cognition, to metaphor, to the photographic image, and to the social and conceptual contexts in which artists work. Presentation and analysis of contemporary art as case examples is an integral component to the course. As PHIL3502W, this course is writing intensive and students will draft and rewrite a main paper topic. In Spring 2014 this class is cross-listed with ARTS3490; students taking it for ARTS credits will create an art project (any medium) in lieu of the main paper assignment. Select PHIL3502W or ARTS3490, depending on how you want to treat the main project assignment.

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**ArtS 3490 Workshop in Art: Graphics Revolution**

- **4 credit(s), max credits 12, 3 completions allowed;**
- **Instructor:** Schmid, Jenny
- **Description:** This class expands on traditional ideas of printmaking to embrace the digital original, which has many potential outputs, from t-shirts to manual fine art prints to animation. Students will develop a body of work and experiment with technologies from all eras to find many manifestations of their ideas. There will be practical demonstrations on how to integrate old and new print technologies. We will discuss the present state of graphic arts and the relationship of printmaking to its closest cousins- animation, comics, commercial and revolutionary applications. A digital archive of images allows for infinite physical and digital reproduction, but more dynamic is the journey through different forms, from the hand printed to motion graphics. This class will address print media in a contemporary way, with the idea of the digital
being a record of potential multiplicity that allows for printmaking to enter an expansive new territory. We will put aside notions of high-brow or low-brow, fine or commercial, instead considering the recent explosion of print media, from rock posters to ‘zines and local emerging print studio collaborations.

**ArtS 3490 Workshop in Art: Digital Toolbox**
- **3 credit(s), max credits 12, 3 completions allowed;**
- **Instructor:** Schwartzman, Robin Nicole
- **Description:** This course will teach students the fundamental tools of Adobe Photoshop and Illustrator with emphasis on practical applications in the arts. Focus will be placed on the manipulation and creation of a wide variety of digital imagery. Skills developed in this course will be relevant to working in many areas including Photography, Drawing and Painting, Printmaking and 2D and 3D Digital Fabrication. Additional emphasis will be placed on the creation of a digital portfolio and branding oneself as an artist. This course is for students who are already in the arts or for students interested in taking an art class who want to learn Photoshop and Illustrator at the basic and intermediate level. No previous experience necessary.

**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);**
- **Instructor:** Oransky, Howard Lee
- **Description:** ARTS 3499 Gallery Internship Course Description The Gallery Internship is a hands-on course in which the students actively participate in the installation and de-installation of exhibitions and other tasks related to the running of an art gallery, including gallery repairs and maintenance. This is not a traditional academic course in which the students read a textbook, the instructor gives lectures, and the students take tests. However, there is an academic component, in which the students research and write a paper. This may be either a site survey of other art galleries or a practice grant application for the Minnesota State Arts Board. Most of the work is individually scheduled, and class meetings are held on Friday mornings as needed. There is no academic prerequisite for the Gallery Internship and undergraduate students from all academic areas at the University of Minnesota are welcome to enroll in this course. The only prerequisites are an interest in how an art gallery operates, a desire to participate in hands-on gallery preparation work, and an open mind about contemporary art. For more information contact Howard Oransky at horansky@umn.edu

**ArtS 3510 Intermediate Printmaking: Traditional and Contemporary Approaches**
- **4 credit(s), max credits 8;**
- **Instructor:** Satinover, Nicholas Henri
- **Description:** Student may contact the instructor or department for information.

**ArtS 3601 New Media: Making Art Interactive**
- **4 credit(s);**
- **Instructor:** Willow, Diane
- **Description:** New Media :: Making Art Interactive introduces new ways of imagining and creating art that transforms the role of viewers into participants. During the Spring 2014 semester we will use the concept of permeable boundaries to begin our explorations with interactive art. This theme will spark a series of playful studio and public art processes as well as a semester-long independent project. Through a series of individual and collaborative explorations, we will experiment with interactive art as a form of experience, a creative process, and a way of conceptualizing artistic ideas. We will learn about tangible media, a hybrid medium that involves digital technologies that connect us with our sensory experience of the physical world. The course is structured to encourage the emergence of a community of learners that benefits from the active exchange of ideas and resources from each participant as well as the extended open source communities of ideas that we access online. New Media :: Making Art Interactive focuses on dynamic art, art that interacts with your sense of time, place, and social space.
- **Style:** 15% Lecture, 20% Discussion, 40% Small Group Activities, 15% Student Presentation, 5% Field Trips, 5% Guest Speakers.
- **Grading:** 40% special projects, 20% in-class presentation, 20% class participation, 20% other evaluation.
- **Exam Format:** critiques

**ArtS 3603 Experimental Video**
ArtS 3604 Animation
4 credit(s);
Instructor: Paul, Steve
Description: 2D Emphasis. The 2D class focuses on creating compelling animation by investigating the techniques, history, theory and style of a broad spectrum of animation. The fall session focuses on character animation and the spring session investigates motion graphics and abstract animation. The two sessions are independent of each other in 3604 but can be built on in 5640. Both sessions begin with approximately six weeks of skill building projects and the remaining time devoted to student-initiated large final projects. The class covers both analog and digital creation methods, with Adobe Photoshop and After Effects being the primary software packages. Students are open to use their choice of medium for creating animations. 3D Emphasis. The 3D class focuses on creating art and animation within Autodesk Maya. Students spend the first six weeks in developing basic skills with the software, then dedicate the remaining weeks to a large final project of their choice. Topics covered include modeling, materials and lighting, animation and basic special effects. The course is suitable for those with beginning to advanced experience in 3D. For greatest success in the class students should have a Mac or PC and a (free) stand-alone student license for Autodesk Maya, available here: http://students.autodesk.com/?nd=download_center

ArtS 3702 Photography: The Extended Image
4 credit(s);
Instructor: Millikan, Jeffrey B
Description: Student may contact the instructor or department for information.

ArtS 3703 Photography: Digital Imaging
4 credit(s);
Instructor: Shambroom, Paul Dennis
Description: We will take photography beyond the basics, approaching it as a means of expression, investigation, and interaction. This is an art class first, not just a technology class. The emphasis is on finding your personal voice and direction as a photographic artist. Students should come to this class with a working knowledge of the basics of camera operation and photographic principles, both technical and aesthetic/conceptual (per pre-reqs.) We will begin with a review of digital principles, camera use, as well as Photoshop. We will gauge students' prior knowledge, then move on as needed to more advanced Photoshop skills such as refined selections and compositing, and fine-tuning color and tonality. We will produce both print and screen-based projects. Special emphasis will be made on fine print making and portfolio creation. We will learn and use advanced digital tools and workflow in the service of your own creative exploration. The class will foster development of critical thinking and vocabulary relating to photography in the context of contemporary and historic image making. We will examine the changing role of digital image production and distribution in society. Our own image making will be considered in the context of photographic history, visual literacy, and the universe of imagery in which we live. Evaluations will be based on group critiques of photographic work, written work and presentations, and participation. Grading is done on Moodle with rubric clearly laying out criteria. Each student should have a manually-controlled advanced digital camera (not point-and-shoot.) We will also do projects using cell phone cameras and found images. Plan on at least 4 hours per week of work time outside of class.

ArtS 3801 Ceramics: Wheel Throwing
4 credit(s), max credits 8;
Instructor: Tornatore, Natalie Anne
Description: Student may contact the instructor or department for information.

ArtS 3802 Ceramics: Handbuilding
4 credit(s), max credits 8;
Instructor: Yamada, Tetsuya
Description: Student may contact the instructor or department for information.

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

ArtS 5110 Advanced Drawing
4 credit(s), max credits 16, 4 completions allowed;
Instructor: Kuhr, Alexis
**ArtS 5120 Advanced Painting**  
4 credit(s), max credits 16, 4 completions allowed;  
**Instructor:** Morgan, Clarence E.  
**Description:** Student may contact the instructor or department for information.

**ArtS 5300 Advanced Sculpture**  
4 credit(s), max credits 12, 3 completions allowed;  
**Instructor:** Rose, Thomas Albert  
**Description:** Student may contact the instructor or department for information.

**ArtS 5330 Advanced Sculpture: Metal Casting**  
4 credit(s), max credits 12, 3 completions allowed;  
**Instructor:** Larson, Chris  
**Description:** Student may contact the instructor or department for information.

**ArtS 5340 Advanced Sculpture: Carving and Construction**  
4 credit(s), max credits 8;  
**Instructor:** Stanislav, Andrea Christine  
**Description:** This is an intermediate and advanced sculpture class, with a focus on installation art, construction methods, and additive and subtractive sculpture practices (carving for example). Class discussions and research presentations will engage in contemporary art theory, and contemporary sculpture concepts and practices.  
**Style:** 10% Lecture, 5% Film/Video, 20% Discussion, 25% Student Presentation, 5% Demonstration, 10% Field Trips, 20% Studio, 5% Guest Speakers.  
**Grading:** 10% final exam, 5% special projects, 20% additional semester exams, 10% attendance, 5% journal, 20% in-class presentation, 30% class participation.

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

**ArtS 5490 Workshop in Art: BFA Studio Critique**  
3 credit(s), max credits 12, 12 completions allowed;  
**Instructor:** Baemmler, Christine Arle  
**Description:** Student may contact the instructor or department for information.

**ArtS 5490 Workshop in Art: Kiln Construction and Design**  
2 credit(s), max credits 12, 12 completions allowed;  
**Instructor:** Gubernick, James David  
**Description:** Student may contact the instructor or department for information.

**ArtS 5490 Workshop in Art: Hand, Mind, Gesture**  
3 credit(s), max credits 12, 12 completions allowed;  
**Instructor:** Sommers, Michael J  
**Description:** Student may contact the instructor or department for information.

**ArtS 5490 Workshop in Art: Graphics Revolution**  
4 credit(s), max credits 12, 12 completions allowed;  
**Instructor:** Schmid, Jenny  
**Description:** This class expands on traditional ideas of printmaking to embrace the digital original, which has many potential outputs, from t-shirts to manual fine art prints to animation. Students will develop a body of work and experiment with technologies from all eras to find many manifestations of their ideas. There will be practical demonstrations on how to integrate old and new print technologies. We will discuss the present state of graphic arts and the relationship of printmaking to its closest cousins- animation, comics, commercial and revolutionary applications. A digital archive of images allows for infinite physical and digital reproduction, but more dynamic is the journey through different forms, from the hand printed to motion graphics. This class will address print media in a contemporary way, with the idea of the digital being a record of potential multiplicity that allows for printmaking to enter an expansive new territory. We will put aside notions of high-brow or low-brow, fine or commercial, instead considering the recent explosion of print media, from rock posters to ‘zines and local emerging print studio collaborations.
ArtS 5510 Advanced Printmaking
4 credit(s), max credits 12, 3 completions allowed;
Instructor: Schmid, Jenny
Description: Student may contact the instructor or department for information.

ArtS 5610 New Media: Making Art Interactive
4 credit(s), max credits 12, 3 completions allowed;
Instructor: Willow, Diane
Description: New Media :: Making Art Interactive introduces new ways of imagining and creating art that transforms the role of viewers into participants. During the Spring 2014 semester we will use the concept of permeable boundaries to begin our explorations with interactive art. This theme will spark a series of playful studio and public art processes as well as a semester-long independent project. Through a series of individual and collaborative explorations, we will experiment with interactive art as a form of experience, a creative process, and a way of conceptualizing artistic ideas. We will learn about tangible media, a hybrid medium that involves digital technologies that connect us with our sensory experience of the physical world. The course is structured to encourage the emergence of a community of learners that benefits from the active exchange of ideas and resources from each participant as well as the extended open source communities of ideas that we access online. New Media :: Making Art Interactive focuses on dynamic art, art that interacts with your sense of time, place, and social space.
Style: 15% Lecture, 20% Discussion, 40% Small Group Activities, 15% Student Presentation, 5% Field Trips, 5% Guest Speakers.
Grading: 40% special projects, 20% in-class presentation, 20% class participation, 20% other evaluation.
Exam Format: critiques

ArtS 5630 Advanced Experimental Video
4 credit(s), max credits 12, 3 completions allowed;
Instructor: Lukkas, Lynn Tjernan
Description: Student may contact the instructor or department for information.

ArtS 5640 Advanced Animation
4 credit(s), max credits 12, 3 completions allowed;
Instructor: Paul, Steve
Description: 2D Emphasis The 2D class focuses on creating compelling animation by investigating the techniques, history, theory and style of a broad spectrum of animation. The fall session focuses on character animation and the spring session investigates motion graphics and abstract animation. The two sessions are independent of each other in 3604 but can be built on in 5640. Both sessions begin with approximately six weeks of skill building projects and the remaining time devoted to student-initiated large final projects. The class covers both analog and digital creation methods, with Adobe Photoshop and After Effects being the primary software packages. Students are open to use their choice of medium for creating animations. 3D Emphasis The 3D class focuses on creating art and animation within Autodesk Maya. Students spend the first six weeks in developing basic skills with the software, then dedicate the remaining weeks to a large final project of their choice. Topics covered include modeling, materials and lighting, animation and basic special effects. The course is suitable for those with beginning to advanced experience in 3D. For greatest success in the class students should have a Mac or PC and a (free) stand-alone student license for Autodesk Maya, available here: http://students.autodesk.com/?nd=download_center

ArtS 5670 Interdisciplinary Media Collaborations
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Willow, Diane
Description: ARTS 5670 ? Wednesday 1:25 ? 4:25 pm ? Regis W123 Catalysts for Interdisciplinary Collaborations this spring will include creative collaborations as varied as The Laundromat Project, 12 Ballads for Huguenot House, Project Row House, The National Bitter Melon Council, Machine Project, The Boston Tree Party, Creative CityMaking, Baltimore Open City, Learning to Love You More. Critical readings, field trips, and guest visits focused on collaboration, public engagement, participation and interdisciplinary processes will inform student-generated collaborations that emerge throughout the semester. This seminar is an invitation to explore new and combined forms of media, making, theorizing, and imagining. It is designed to attract people with a broad range of interests, disciplinary perspectives, and prior knowledge. Prerequisites include: a lively sense of curiosity ? an interest in exploring new ways of thinking ? hybrid perspectives ? permeable public spaces ? and an enjoyment of collaborative learning processes. Professor: Diane Willow [willow@umn.edu] Diane Willow is a multi-modal artist and creative catalyst. By any medium necessary best describes her process. She uses hybrid media to explore the poetic dynamics of nature, technology and community. These seemingly divergent perspectives converge in her practice of art as a socially engaged mode of tuning our attention to ephemeral experiences in everyday places. She exhibits her public installations, interactive environments and evocative objects internationally, presenting each as an invitation to engage people in multisensory explorations as participants and choreographers rather than simply as viewers. Recent collaborations include the New Media program at the Beijing Film
Academy, Creative CityMaking with Intermedia Arts and the City of Minneapolis, Improvising Ecosystems: Sounds and Visions of Cedar Creek, Visiting Faculty with the High-Low Tech group at the MIT Media Lab, Studio Co-Laboratory at UMN.

**ArtS 5710 Advanced Photography**
- **4 credit(s), max credits 12, 3 completions allowed;**
- **Instructor:** Henkel, James V
- **Description:** This class is designed as a portfolio class. Students are expected to have a minimum of 3 photography classes, and will design their own photographically oriented projects. Readings and gallery/museum visits will be planned during the semester. Students may work in any manner, but in order to utilize the areas digital facilities, must have taken a digital photography class in our program.
- **Style:** 50% Discussion, 50% Laboratory.
- **Grading:** 20% reports/papers, 20% in-class presentation, 20% class participation, 20% laboratory evaluation, 20% problem solving.
- **Exam Format:** performance

**ArtS 5810 Advanced Ceramics**
- **4 credit(s), max credits 16, 4 completions allowed;**
- **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, 12 completions allowed;**
- **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, 12 completions allowed;**
- **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, 12 completions allowed;**
- **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, 12 completions allowed;**
- **Instructor:** Larson, Chris
- **Description:** Student may contact the instructor or department for information.

**ArtS 5990 Independent Study in Art**
- **1-4 credit(s), max credits 12, 12 completions allowed;**
- **Instructor:** Schmid, Christina Heidi
- **Description:** Student may contact the instructor or department for information.

**ArtS 5990 Independent Study in Art**
- **1-4 credit(s), max credits 12, 12 completions allowed;**
- **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, 12 completions allowed;**
- **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, 12 completions allowed;**
- **Instructor:** Morgan, Clarence E.
- **Description:** Independent Study is reserved for special circumstances intended for students who have already displayed
the capacity to work independently. Students must be self motivated, ambitious and have a clear indication of the direction their work is taking. The instructor requires students registered for an Independent Study must have worked with the instructor previously. Typically, the instructor in consultation with the student will meet between 5-6 times during the semester. These meetings are designed to offer students critical feedback about their work and to review the progress they are making.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Henkel, James V
Description: Student may contact the instructor or department for information.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
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, 12 completions allowed;
Instructor: Kuhr, Alexis
Description:

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
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, 12 completions allowed;
Instructor: Yamada, Tetsuya
Description: Student may contact the instructor or department for information.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Willow, Diane
Description: Student may contact the instructor or department for information.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Stanislaw, Andrea Christine
Description: Students will produce self directed projects with consent of instructor. Study will also focus on critical theory and the articulation of those ideas through studio production.
Style: 50% Discussion, 50% Studio.
Grading: 50% mid exam, 50% final exam.
Exam Format: critique

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
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, 12 completions allowed;
Instructor: Tornatore, Natalie Anne
Description: Student may contact the instructor or department for information.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Oransky, Howard Lee
Description: Student may contact the instructor or department for information.
ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Shambroom, Paul Dennis
Description: Student may contact the instructor or department for information.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Peterson, Lamar
Description: Student may contact the instructor or department for information.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: FULLERTON, TERRI LEE
Description: Student may contact the instructor or department for information.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Zefeldt, Mathew James
Description: Student may contact the instructor or department for information.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Satinover, Nicholas Henri
Description: Student may contact the instructor or department for information.

ArtS 5990 Independent Study in Art
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Austen, Hartmut
Description: Student may contact the instructor or department for information.

ArtS 8100 Practice and Critique: Drawing and Painting
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Morgan, Clarence E.
Description: Student may contact the instructor or department for information.

ArtS 8300 Practice and Critique: Sculpture
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Rose, Thomas Albert
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: Lyon, Joyce
Description: Student may contact the instructor or department for information.

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

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

ArtS 8410 Studio Critique/Visiting Artists Seminar
A-F only, 3 credit(s), max credits 6;
Instructor: Baeumler, Christine Arle
Description: Student may contact the instructor or department for information.
ArtS 8490 Workshop in Art: MFA Teaching Colloquium
1 credit(s), max credits 12, 3 completions allowed;
Instructor: Lukkas, Lynn Tjernan
Description: Student may contact the instructor or department for information.

ArtS 8500 Practice and Critique: Printmaking
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Schmid, Jenny
Description: Student may contact the instructor or department for information.

ArtS 8600 Practice and Critique: Experimental and Media Arts
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Willow, Diane
Description: Student may contact the instructor or department for information.

ArtS 8700 Practice and Critique: Photography
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Henkel, James V
Description: Student may contact the instructor or department for information.

ArtS 8800 Practice and Critique: Ceramics
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Pharis, Mark W
Description: Student may contact the instructor or department for information.

ArtS 8990 M.F.A. Creative Thesis
1-9 credit(s), max credits 18, 18 completions allowed;
Instructor: Pharis, Mark W
Description: Student may contact the instructor or department for information.

ArtS 8990 M.F.A. Creative Thesis
1-9 credit(s), max credits 18, 18 completions allowed;
Instructor: Lyon, Joyce
Description: Student may contact the instructor or department for information.

ArtS 8990 M.F.A. Creative Thesis
1-9 credit(s), max credits 18, 18 completions allowed;
Instructor: Lukkas, Lynn Tjernan
Description: Student may contact the instructor or department for information.

ArtS 8990 M.F.A. Creative Thesis
1-9 credit(s), max credits 18, 18 completions allowed;
Instructor: Larson, Chris
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;
Instructor: Schmid, Christina Heidi
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;
Instructor: Baemiller, 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;
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;
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;
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;
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;
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;
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;
Instructor: Kuhr, Alexis
Description: Student may contact the instructor or department for information.

ArtS 8990 M.F.A. Creative Thesis
1-9 credit(s), max credits 18, 18 completions allowed;
Instructor: Estep, Jan
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;
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;
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;
Instructor: Stanislav, Andrea Christine
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;
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;
Instructor: Tornatore, Natalie Anne
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;
Instructor: Shambroom, Paul Dennis
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;
Instructor: Peterson, Lamar
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;
Instructor: FULLERTON, TERRI LEE
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;
Instructor: Zefeldt, Mathew James
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;
Instructor: Satinover, Nicholas Henri
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;
Instructor: Austen, Hartmut
Description: Student may contact the instructor or department for information.

Art History
338 Heller Hall

ArtH 1001 Introduction to Art History: Prehistoric to Contemporary
4 credit(s); Meets CLE req of Arts/Humanities
Instructor: Ostrow, Steven F
Description: This course is an introduction to Art History as a humanistic discipline. It examines a selection of major monuments and works of art from prehistoric times to the present day in Europe, North America, Latin America, the Islamic world, and Asia. Students are introduced to the various ways of studying visual culture, addressing such issues as style, iconography, patronage, technology, and historical context, in order to better understand works of art and architecture in terms of the creative experience, as expressions of individuals and society, and as responses to changing materials and practices over time.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 10% quizzes, 10% attendance.

ArtH 3009 Medieval Art
3 credit(s); Meets CLE req of Arts/Humanities
Instructor: STAFF
Description: Medieval Art This course focuses on Medieval art in Western Europe, from around 1000 to the mid-14th century, a new world of magnificent churches, sculptures of monsters and saints, preciously illustrated books, magnificent gold and stone statues, stained glass windows, and ivory carvings. Works from France, Spain, Germany, Italy, and England will be examined in their historical context, with particular attention paid to cross cultural relations, the development of completely new forms of art, and techniques and the processes of realization.

ArtH 3009 Medieval Art
3 credit(s); Meets CLE req of Arts/Humanities
Instructor: Bartoli, Roberta
Description: Medieval Art This course focuses on Medieval art in Western Europe, from around 1000 to the mid-14th century, a new world of magnificent churches, sculptures of monsters and saints, preciously illustrated books, magnificent gold and stone statues, stained glass windows, and ivory carvings. Works from France, Spain, Germany, Italy, and England will be examined in their historical context, with particular attention paid to cross cultural relations, the development of
completely new forms of art, and techniques and the processes of realization.

**ArtH 3013 Introduction to East Asian Art**  
3 credit(s); Credit will not be granted if credit has been received for: EAS 3013; Meets CLE req of Global Perspectives  
Instructor: Otten, Nikki Erin  
Description: Student may contact the instructor or department for information.

**ArtH 3162 Roman Art and Archaeology**  
3 credit(s); Credit will not be granted if credit has been received for: CNES 3162; Meets CLE req of Historical Perspectives  
Instructor: Canepa, Matthew P.  
Description: This course will provide an introduction to the history of Roman art and archaeology from the formation of the city-state of Rome under Etruscan domination, to the Roman Empire under Augustus, to the transformation of Roman visual culture in late antiquity as the Roman Empire became Christian under Constantine the Great. No background in the time period or discipline is expected and therefore this class will also serve as an introduction to interdisciplinary study of art history and the classical world. A number of art historical methodologies will be introduced in order to not only give the student a useful background in art history but to give him or her the tools to think as historians and incorporate related visual and textual evidence meaningfully into their writing.  
Style: 80% Lecture, 10% Discussion, 10% Field Trips.  
Grading: Two midterms and a final (25% each); short papers (20%); attendance (5%).  

**ArtH 3208 Mexico on My Mind**  
3 credit(s); Credit will not be granted if credit has been received for: CHIC 3208; Meets CLE req of Arts/Humanities; meets CLE req of Global Perspectives  
Instructor: Afanador-Pujol, Angelica J  
Description: In this liberal education course, students will be exposed to a wide variety of images and issues across time and over a vast geographic territory--from the art of Pre-Columbian cultures of Mesoamerica to colonial, post-independence, and modern Mexico to modern Chicano art in the U.S.. We will think critically about how Mexico and its people have represented themselves and been represented by others. We will study the role images play in community, national, and international politics through history. Furthermore, we will explore how these images have come to shape modern perceptions and how these perceptions affect people in Mexico and the U.S. today.

**ArtH 3315 The Age of Curiosity: Art and Knowledge in Europe, 1500-1800.**  
3 credit(s); Credit will not be granted if credit has been received for: HIST 3708; Meets CLE req of Arts/Humanities; meets CLE req of Technology and Society  
Instructor: Gaudio, Michael  
Description: During the early modern period in Europe (ca. 1500-1800), borders between "art" and "science" (to the extent that these borders existed at all) were very much in-the-making, and it was possible to cross them with relative ease. Leonardo da Vinci is just one example of an early modern artist for whom the distinction between the artist's creative capacities and the pursuit of scientific curiosity was, to put it simply, unfathomable. This course will introduce you to the diverse ways in which the making of art and the making of scientific knowledge intersected in early modern Europe. We will explore connections between scientific curiosity and the visual arts by considering major artists (Leonardo, Durer, Vermeer, Rembrandt, etc). We will also consider the artfulness of visual materials we tend to classify as "scientific," including scientific imagery and diagrams, geographical maps, cabinets of curiosities, and new visual technologies such as the telescope and microscope.

**ArtH 3434 Art and the Environment**  
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Environment  
Instructor: Blocker, Jane M  
Description: In this course we will examine the international movements loosely grouped under the names Land Art, Earth Art, and (more commonly today) Environmental Art. We will trace the historical development of these movements from 1968, when the first exhibition of such art, called "Earthworks," took place at the Dwan Gallery in New York, up to the present day. The course tracks the changing aesthetic, political, biological, economic, agricultural, technological, and climatic forces that influenced such art, from the anti-institutionalism and participatory approaches of the 1960s to the more activist artistic engagement with environmentalism and globalization today. The class takes up two primary concerns: understanding the historical and scientific conditions that have given rise to such art, and understanding the ways in which artists have sought to intervene in and affect a changing environment. Classes are structured around course readings, lectures, and discussions.  
Style: 40% Lecture, 40% Discussion, 10% Small Group Activities, 10% Student Presentation.  
Grading: 25% mid exam, 25% reports/papers, 40% special projects, 10% class participation.
ArtH 3921W Art of the Film
4 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive
Instructor: Silberman, Robert B
Description: This course provides an introduction to the history and aesthetics of film. Special attention is paid to major film directors, genres, and styles; to the relation between film and other arts (literature, theater, photography, painting, music); and to the relation between film and society. Among the films shown are "The Birth of a Nation," "Metropolis," "Citizen Kane," "Rashomon," and "Bonnie and Clyde." The course is appropriate for non-major undergraduates as well as Art History and Cinema Studies majors. This course follows a lecture/discussion format. There are required discussion sections. Most films are screened in class but there will be additional films that students will be required to watch outside of class on DVD. The term paper is 6-8 pages long; it is not a research paper. There will also be several brief (one-page) writing assignments. Textbook: Bordwell and Thompson, Film History.
Style: 50% Lecture, 30% Film/Video, 20% Discussion.
Grading: 25% mid exam, 35% final exam, 40% reports/papers. Attendance (for lectures and discussion sections) and participation (in discussion sections) may affect the final grade.
Exam Format: Short answer (terminology and concepts; lecture and reading information), film clip ID (brief analysis), essay.

ArtH 3940 Topics in Art History: GMD App: Design and Content for Goldstein Museum
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: LeFevre, Camille Lynn
Description: Student may contact the instructor or department for information.

ArtH 3975 Directed Museum Experience
1-2 credit(s), max credits 2, 1 completion allowed;
Instructor: STAFF
Description: The student is responsible for obtaining an internship in an art institution or museum which must be approved by the Director of Undergraduate Studies in Art History. For 2 credits the internship must be for at least 10 hours per week. Open to majors and non-majors. Speak with the ArtH DUGS for more information.
Style: On-site internship.

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

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

ArtH 3993 Directed Study
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Asher, Frederick 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;
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;
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;
Instructor: Gaudio, Michael
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;
Instructor: Ostrow, Steven F
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;
Instructor: Afanador-Pujol, Angelica J
Description: Student may contact the instructor or department for information.

ArtH 3993 Directed Study
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Marshall PhD, Jennifer Jane
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;
Instructor: Canepa, Matthew 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;
Instructor: Kim, Minku
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Asher, Catherine B
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Weisberg, Gabriel
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Asher, Frederick M
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Silberman, Robert B
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Blocker, Jane M
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Gaudio, Michael
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Ostrow, Steven F
Description: Student may contact the instructor or department for information.
ArtH 3994 Directed Research  
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;  
Instructor: Afanador-Pujol, Angelica J  
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research  
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;  
Instructor: Marshall PhD, Jennifer Jane  
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research  
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;  
Instructor: Canepa, Matthew P.  
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research  
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;  
Instructor: Bartoli, Roberta  
Description: Student may contact the instructor or department for information.

ArtH 3994 Directed Research  
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;  
Instructor: Kim, Minku  
Description: Student may contact the instructor or department for information.

ArtH 5301 Visual Culture of the Atlantic World  
A-F only, 3 credit(s);  
Instructor: Gaudio, Michael  
Description: This course explores the visual culture of the Atlantic World from the time of the Columbian encounter through the revolutionary period in North America. Art historical approaches to early modern visual culture have traditionally been defined by distinct—and distinctly artificial—national and cultural entities (England, France, Spain, the Americas, Africa, etc.). This course, however, will treat the broad geographic region of the Atlantic rim as a fluid space defined by the circulation and exchange of peoples, goods, and knowledges. We will investigate visual representations (including paintings, prints, maps, scientific imagery, decorative arts), collecting practices, and visual performances and spectacle through the key issues that defined this circum-Atlantic context: slavery and the slave trade, contact and exchange with indigenous cultures, international commerce and politics, religious debate and conflict, and the production of scientific knowledge. No pre-requisites. For advanced undergraduates and graduate students.  
Style: 50% Lecture, 50% Discussion.

ArtH 5413 Alternative Media: Video, Performance, Digital Art  
A-F only, 3 credit(s);  
Instructor: Blocker, Jane M  
Description: The course focuses on the films of the great American directors John Ford and Howard Hawks. We will study the directors' different and at times intersecting filmmaking methods and how style shaped and was shaped by the cultural, historical, artistic, and political changes that took place in pre- and post-war America to define a drama that captures the conscious of the times. We will look how each filmmaker approached different genres: comedy (Bringing Up Baby/Donovan's Reef), drama (Four Sons/How Green Was My Valley/Only Angels Have Wings), noir (The Informer/The Big Sleep) and the western (The Searchers/Red River/Rio Bravo/The Man Who Shot Liberty Valance). We will also study their relationship to realism, spectacle, and melodrama, as well as to literary, artistic, and musical figures and examine how their films explore the human condition.

ArtH 5781 Age of Empire: The Mughals, Safavids, and Ottomans  
3 credit(s);  
Instructor: Casale, Sinem Arcak  
Description: Student may contact the instructor or department for information.

ArtH 5787 Visual Cultures in Contact: Cross-Cultural Interaction in the Ancient and Early Medieval Worlds  
3 credit(s);  
Instructor: Canepa, Matthew P.  
Description: Student may contact the instructor or department for information.
ArtH 5801 Spoken Word and Painted Texts in the Americas (200-1650 A.D.)
3 credit(s);
Instructor: Afanador-Pujol, Angelica J
Description: The metaphor "in xochitl, in cuicatl," meaning flower and song, was used by the people of Central Mexico in the sixteenth century to describe the beauty of spoken and painted words that embellished life and books. From divinatory books, historical accounts, and territorial maps, to the advice of elders, the poetry of kings past, and popular songs, painted and spoken words shaped the life of the indigenous peoples of the Americas. Many of these "flowers and songs" survive today in their original painted and carved forms as well as in the alphabetic records of Spanish friars and indigenous nobles who transcribed them during the colonial period. This upper-division course will study the flower and song from Mexico, the Maya region, and colonial Peru (ca. A.D. 500-1600). We will focus on primary sources, their interpretations, and some of the major problems confronting scholars and the different theoretical and methodological approaches taken to address them. Emphasis will be placed on critical analysis of scholarly writing, with special attention paid to what constitutes evidence.
Grading: 20% mid exam, 25% final exam, 30% reports/papers, 15% in-class presentation, 10% class participation.
Exam Format: In-class essays

ArtH 5950 Topics: Art History: Michelangelo and His Legacy
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Bartoli, Roberta
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;
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;
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;
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;
Instructor: Silverman, 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;
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;
Instructor: Gaudio, Michael
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;
Instructor: Ostrow, Steven F
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;
Instructor: Afanador-Pujol, Angelica 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;
Instructor: Marshall PhD, Jennifer Jane
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;
Instructor: Canepa, Matthew 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;
Instructor: Kim, Minku
Description: Student may contact the instructor or department for information.

ArtH 8520 Seminar: American Art and Material Culture
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Marshall PhD, Jennifer Jane
Description: Student may contact the instructor or department for information.

Arts and Cultural Leadership
20 Ruttan Hall

ACL 5230 Ethics and the Law
A-F only, 3 credit(s);
Instructor: Corley, Kathleen Hayes
Description: <b>Ethics and the Law: Exploring the issues, standards, and policies that impact the operations of arts and cultural organizations from an ethical and legal framework</b> - Leadership calls on an individual to be able to stand with confidence on moral and legal grounds in the day to day operations and conduct of a business. By combining theory and practice, this course will explore the basis for human conduct and the source of moral and ethical behavior; examine standards, rules and laws that legislate conduct; and distinguish those situations when seeking legal guidance/advice is the only responsible option. Arts and cultural management issues arising from intellectual, real and personnel property rights; employment; earned-income ventures; and the myriad of issues that come with contributed income - conflict of interest, self-inurnment, and exemption from federal and state income tax - will also be on the agenda. Prior experience in a non-profit or for-profit organization is recommended.

ACL 5993 Directed Studies
A-F only, 1-4 credit(s), max credits 15, 15 completions allowed;
Instructor: Corley, Kathleen Hayes
Description: Student may contact the instructor or department for information.

ACL 5993 Directed Studies
A-F only, 1-4 credit(s), max credits 15, 15 completions allowed;
Instructor: Stone, Melissa M
Description: Student may contact the instructor or department for information.

ACL 8001 Introduction to Interdisciplinary Inquiry
A-F only, 3 credit(s);
Instructor: Gonzalez, Anita
Description: Student may contact the instructor or department for information.

Asian American Studies
214 Social Sciences Building

AAS 1101 Imagining Asian America
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Lee, Erika
Description: Asian Americans are the fastest-growing minority population in the United States. Their histories, cultures, and experiences have become increasingly crucial to understanding contemporary American citizenship, identity, and values. We will look at past and present aspects of the diverse and multifaceted vision of "Asian America," using histories, films, memoirs, and other texts as illustrations. We will also study how the history of immigration, exclusion, and naturalization laws has visibly shaped existing Asian American communities and identities, and, how "Asian America" is
central to a more general understanding of American popular culture and public life. This course satisfies LE Requirements for Cultural Diversity and Citizenship and Public Ethics. Readings include memoirs, historical and contemporary documents. We will view short documentaries and use other media. Class time will involve discussion and small group projects. Assignments will include short essays and a final project.

**Grading:** 20% attendance, 80% other evaluation. 3 Short Essays, 4 pages (30%), 3 In-Class Assignments(30%), Final Project: Presentation - Oral and Written (20%).

AAS 1101 Imagining Asian America

**3 credit(s);** Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences

**Instructor:** Lee, Erika

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

AAS 1101 Imagining Asian America

**3 credit(s);** Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences

**Instructor:** Kim, Na-Rae

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

AAS 3001 Contemporary Perspectives on Asian America

**3 credit(s);** Credit will not be granted if credit has been received for: AMST 3001; Meets CLE req of Diversity and Soc Justice US

**Instructor:** Fajardo, Kale Bantigue

**Description:** Where are Asian Americans located locally, regionally, nationally, and globally? Does geographic location make a difference in how Asian Americans understand and experience their identities and communities? How do different places and the politics in these places (for example, Asia, U.S. west coast, U.S. Midwest, New York, Hawaii, Caribbean) affect Asian/Asian American experiences, identities and communities? This course focuses on different sites in Asian America to better understand the complexity, beauty, and problems of Asian America. Key questions for the course include: How do Asians/Asian Americans in diverse geographic locations experience, historicize, politicize, visualize, and/or imagine themselves and their communities in the context of the U.S., Asian America, and beyond? Who, what, where, when, and how is Asian America? What are the cultural politics of space, place, and movement in Asian America? How do these issues play out in Minnesota/Twin Cities? Participants in this course will seriously explore and engage these questions and themes by reading theory, literature, film, and art and working on a group research project about an Asian American space, place, or movement in the Twin Cities.

**Style:** 30% Lecture, 30% Film/Video, 40% Discussion.

**Grading:** 35% reports/papers, 35% special projects, 30% class participation. Final Project

AAS 3409W Asian American Women's Cultural Production

**3 credit(s);** Credit will not be granted if credit has been received for: GWSS 3409W; Meets CLE req of Arts/Humanities; Meets CLE req of Diversity and Soc Justice US; Meets CLE req of Writing Intensive

**Instructor:** Ye, Twiggy Shana

**Description:** Who are Asian American women? How are Asian American women represented in today’s pop culture? How has such an identity been configured and reconfigured in the American context? What does it mean to be an Asian American woman in the United States? This writing intensive course investigates ways in which Asian American women’s cultural production complicates, challenges, and reinforces dominant modes of knowledge production about Asians and Asian American women in the United States, via surveying various forms of cultural production, including novels, memory, literature criticism, films and arts. Students will explore the relations between power, identity and cultural production by studying how race, gender, class, sexuality, immigration and ethnicity are historically produced in intersected ways. Students are strongly encouraged to bring in lived experience to challenge the dominant lens of history and culture that have rendered Asian American women invisible or produced distorted representations. Course Objectives: 1) To introduce students to genealogies of Asian American feminist cultural criticism; 2) To analyze how specific forms of power such as nationalism, imperialism and colonialism operate through gender, race, sexuality, class and nation to affect Asian America women; 3) To critically interrogate the complexity of agency and resistance intrinsic to Asian American women’s experiences.

**Style:** 25% Lecture, 10% Film/Video, 40% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Field Trips.

**Grading:** 30% reports/papers, 35% special projects, 10% attendance, 20% in-class presentation, 10% class participation.

AAS 3486 Hmong Refugees from the Secret War: Becoming Americans

**3 credit(s);** Credit will not be granted if credit has been received for: HIST 3486

**Instructor:** Lee, Mai Na M.

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

AAS 3503 Asian American Identities, Families, and Communities
AAS 3920 Topics in Asian American Studies: Asian American Health and Research II

Description: This course provides intensive training in social science research methods within the context of Asian and Pacific Islander (API) women and public health. Students will learn about API women's health issues both locally and nationally. They will then apply this knowledge by actively researching a women's health topic that most affects the University of Minnesota campus community. Students will be required to work collaboratively to conduct community-based research and analyze and interpret data. Students are highly encouraged to continue on to the next sections of this course, in which students will conduct social action projects based upon the research findings obtained in this class. Students' personal experiences and perspectives will be critical in completing class assignments and fully participating in class. The full year long course will combine research, advocacy, and leadership development using the frameworks and principles of public health and social justice. Instructor: Dr. Melissa Kwon is a Research Associate for the Center for Applied Research and Educational Improvement in the College of Education and Human Development at the University of Minnesota, Twin Cities. Dr. Kwon earned both her MA in Education with an emphasis in Research Methodology and her PhD in Education with an emphasis in Cultural Perspectives and Comparative Education from the University of California, Santa Barbara (UCSB). She has taught various courses in the Departments of Asian American Studies and Education at UCSB, including Asian American Gender & Sexuality, Asian American Migrations since 1965, Asian American Literature, and Research on Teaching & Learning in Sociocultural Contexts. Her research focuses on Asian American college student experiences in higher education.

AAS 3877 Asian American History, 1850 to Present

Description: Asian immigrants began to arrive in the United States in the mid 19th century. Today, about half of the people immigrating today are from Asia. This course is a broad and comparative survey of Asian Americans (Chinese, Japanese, Korean, Filipino, South Asian, and southeast Asian Americans, particularly Hmong and Vietnamese) from 1850 to the present. Topics include: immigration, anti-Asian discrimination and exclusion, labor, women, family, and communities, World War II and Asian America, including the internment of Japanese Americans; New immigration from Asia after 1965, war in Southeast Asia and refugee migration and communities in the U.S., the Asian American movement and the struggle for equality, and contemporary issues related to Asian Americans. This course is open to undergraduate majors and non-majors. Reading assignments will include texts, articles, and autobiographies. We will view films and use the internet to compliment lectures and class discussions.

Style: 70% Lecture, 30% Discussion.
Grading: 25% mid exam, 35% final exam, 20% reports/papers, 20% class participation.
Exam Format: Essay
All 3356W Chinese Film
3 credit(s); meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive
Instructor: STAFF
Description: The course will place these filmic texts in the sociocultural and historical contexts in which they were created and examine their relationship to ongoing cultural production in greater China over the past century. It is anticipated that through studying film in this way, students in this class will acquire a working knowledge of a range of key issues in Chinese society over the last century—a period that has seen multiple transformations in nearly every area of life from politics and economics, to culture, art, and ideology.

All 3371 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 3479;
Instructor: Wang, Liping
Description: This course aims for students to have a better understanding of present-day China, especially its rapid urban expansion, by exploring history of Chinese cities and urban life. It begins by discussing the question why pre-modern China, an agrarian society, had some of the largest cities in the world. We will study the planning and building of traditional Chinese cities, and the urban life they housed. The course will then focus on Chinese urban experience in the late 19th and the 20th century, when cities became the focal point of modernization. We will analyze the reasons why it was during this period that Shanghai and Hong Kong emerged from obscurity to great metropolises, while many older cities declined. The class will then examine the role of cities given by the Chinese Communist Party, a party well known for its victory based on peasant support. We will look at the ways cities are shaped in PRC, and how their material shapes in turn framed lives in them.

All 3372 History of Women and Family in China, 1600-2000
3 credit(s); Credit will not be granted if credit has been received for: HIST 3469;
Instructor: Wang, Liping
Description: This course offers an in depth examination of women and family life in China from 1600 to the present. It begins by exploring major issues in traditional Chinese society: marriage and family life, foot binding, and the cult of female chastity. Then we will study women's role and changes of family life in successive political and social revolutions of the 20th century. The last part of the course will be devoted to examine gender relations in China since the country was opened to market economy and international trade. We will look at the effect of ideologies (Confucianism, nationalism, and socialism) on women and family, and also differences between ideology and social practice. Reading assignments will include scholarly works, biographies, and novels. Films and other visual materials will be used to compliment lectures and class discussion.

All 3441W Japanese Theater
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive
Instructor: Isaka, Maki
Description: Japanese theater has been enriched with its diverse traditions, ranging from the all-male kabuki theater (literally, "that which is queer, wacky, and crazy") to the all-female Takarazuka revue, and to internationally renowned Butoh, etc. This course will explore these various types of performing arts in various contexts: acting, training, script, society, or what have you. By doing so, we will also learn how theater practitioners have contributed to the formation of some "philosophical" concepts of importance in Japan: body, gender, knowledge creation and transmission, and so on. 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. It fulfills the Liberal Education requirements of "Arts/Humanities" and "Writing Intensive."

All 3637W Modern South Asian Literature
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Durham-Shapiro, Emily
Description: Student may contact the instructor or department for information.
ALL 3871 Islam: Religion and Culture
3 credit(s); Soph or jr or sr
Credit will not be granted if credit has been received for: ARAB 3036;
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 views. 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 (sayings and actions of the prophet) and the Sira (biography). 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. I will ask you to view two films on your own and 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.

ALL 3872 The Cultures of the Silk Road
3 credit(s); Credit will not be granted if credit has been received for: HIST 3504;
Instructor: Bashiri, Iraj
Description: The culture of the Silk Road flourished after the invasion of Alexander. The Road served as a hub of activity between the time of the Sassanids and the Mongols. Its activity came to a halt after the discovery of the sea routes. After the fall of the Soviet Union, not only the markets but also the intellectual legacy that was associated with them, have come to life in Central Asia. The course covers both the past and the present aspects of the Silk Road. Student Learning Outcomes: ? Learning about the cultures of medieval and present-day Central Asia, Afghanistan, and Iran ? Ability to interpret diverse ideological trends and accept them for what they are ? Distinguish different economical, political, and cultural trends ? Examine the roots of conflict leading to amity and cooperation versus to animosity and war ? Appreciate the contributions of Central Asian, Afghan, and Iranian peoples to world civilization.
Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.
Grading: 12% final exam, 45% reports/papers, 24% quizzes, 3% attendance, 10% in-class presentation, 6% class participation.
Exam Format: essay--Students are given a study guide before each exam with the major topics discussed from which exam questions are taken.

ALL 3883 The Ottoman Empire
3 credit(s); Credit will not be granted if credit has been received for: ARAB 3547; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Casale, Giancarlo
Description: A survey of Islam's most successful empire, from its founding circa 1300 to its demise in 1923. Sultans, Janissaries, Sufis, and Deaf-mute Midget Stranglers - they're all here. Organized as a lecture course with weekly readings (both articles and primary sources, roughly 50-80 pages per week). Final grade based on a combination of class participation, in-class mid term and final exams, and final paper (5-7 pages).

ALL 3920 Topics in Asian Culture: Language and Society of the Two Koreas
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Cho, Hangtae
Description: This course is designed to offer an introduction and contrastive analysis of the language and society of the two Koreas; the Republic of Korea (better known as South Korea) and the Democratic People's Republic of Korea (better known as North Korea) with a heavier emphasis on North Korea. This course will introduce the growing divide of the past 60+ years between North and South Korea in the areas of language, society and culture. The complexity of the East Asian region is partly due to the issues involving the two Koreas; however, knowledge regarding North Korea remains very limited compared to its neighbors. Mass media portrays the controversial political and human right issues of North Korea but generally lacks in coverage of everyday life there. The course content will be based on various scholarly articles and book chapters, current web-based resources and documentaries. While this course will include linguistic elements of interest to intermediate and advanced students of the Korean language, all course content will be accessible to students regardless of Korean language proficiency. This course has no pre-requisites and does not expect students to have a background in political science, Korean history, or sociology, nor a background on North Korea. It does however expect that students have some interest in these areas.
Grading: 20% mid exam, 20% final exam, 30% reports/papers, 10% attendance, 20% class participation.
Exam Format: a mix of multiple choice, fill in the blank and short answers.

ALL 3920 Topics in Asian Culture: Samurai, Geisha, and How They Became Japanese
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Mizuno, Hiromi
Description: This course traces how Samurai and Geisha came to be considered the quintessential Japanese tradition.
through Western Orientalism, Japanese nationalism, international politics, and cultural globalization. You will be learning not only about Samurai and Geisha, but also about Japan's modernization and its political, intellectual, and cultural transformation. We'll examine films (both Japanese and American), autobiographies of samurai and geisha, novels, and scholarly works.

**Style:** 30% Lecture, 30% Film/Video, 30% Discussion, 10% Small Group Activities.

**Grading:** 50% reports/papers, 10% quizzes, 20% written homework, 20% journal. Attendance and class participation is mandatory.

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**ALL 3920 Topics in Asian Culture: Exploring India: Languages, Literature, and Film**  
3 credit(s), max credits 9, 3 completions allowed;  
Instructor: Hong, Sungok  
Description: Student may contact the instructor or department for information.

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**ALL 3990 Directed Study**  
1-4 credit(s), max credits 16, 4 completions allowed;  
Instructor: STAFF  
Description: Directed Studies in ALL and Asian languages are restricted to very special conditions, with the particulars established by the individual teacher upon department approval. Note: Directed Studies cannot be used to fulfill the core requirements of either the Major or Minor.

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

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**ALL 5990 Directed Study**  
1-4 credit(s), max credits 16, 4 completions allowed;  
Instructor: STAFF  
Description: Directed Studies in ALL and Asian languages are restricted to very special conditions, with the particulars established by the individual teacher upon department approval. Note: Directed Studies cannot be used to fulfill the core requirements of either the Major or Minor.

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**ALL 8002 Critical Approaches to Asian Studies**  
3 credit(s);  
Instructor: Marran, Christine L  
Description: Student may contact the instructor or department for information.

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**ALL 8990 Directed Readings**  
1-4 credit(s), max credits 16, 4 completions allowed;  
Instructor: STAFF  
Description: Directed Readings in ALL and Asian languages are restricted to very special conditions, with the particulars established by the individual teacher upon department approval.

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**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; meets CLE req of Physical Sciences  
Instructor: Humphreys, Robert M  
**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 covers exciting contemporary topics such as black holes, the expansion of the universe and the search for extra-terrestrial life. Although largely descriptive, the course will occasionally require the use of junior high level math. This course is intended for non-science majors; no science background is necessary. IT students should take Ast 1011H.  
**Style:** 50% Lecture, 10% Discussion, 40% Laboratory.  
**Grading:** 32% mid exam, 30% final exam, 14% special projects, 24% laboratory evaluation.  
**Exam Format:** Multiple choice + essay or short answer.
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; meets CLE req of Physical Sciences
Instructor: Woodward, Charles E
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 covers exciting contemporary topics such as black holes, the expansion of the universe and the search for extra-terrestrial life. Although largely descriptive, the course will occasionally require the use of junior high level math. Lectures are two days per week (75 minutes/class meeting); on a third day each week two hours are spent in small groups working on a lab project. This course is intended for non-science majors: no science background is necessary. IT students should take Ast 1011H.
Style: 50% Lecture, 10% Discussion, 40% Laboratory.
Grading: 32% mid exam, 30% final exam, 14% special projects, 24% laboratory evaluation.
Exam Format: A combination of multiple choice, short answer, and/or essay.

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; meets CLE req of Physical Sciences
Instructor: Scarlata, Claudia Maria
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 covers exciting contemporary topics such as black holes, the expansion of the universe and the search for extra-terrestrial life. Although largely descriptive, the course will occasionally require the use of junior high level math. This course has a lecture AND lab component. This course is intended for non-science majors; no science background is necessary. CSE students should take Ast 1011H.
Style: 50% Lecture, 10% Discussion, 40% Laboratory.
Grading: 32% mid exam, 30% final exam, 14% special projects, 24% laboratory evaluation.
Exam Format: A possible combination of multiple-choice, essay and/or short answer questions.

Ast 1005 Descriptive Astronomy
3 credit(s); non-science major Credit will not be granted if credit has been received for: AST 1001;
Instructor: Scarlata, Claudia Maria
Description: This course is a scientific exploration of the human place in the universe. We study the origin and history of the University 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 three days a week; on a 4th day each week two hours are spent in small groups working on a lab project. This course is intended for non-science majors; no science background is necessary. CSE students should take AST 1011H.
Style: 50% Lecture, 10% Discussion, 40% Laboratory.
Grading: 32% mid exam, 30% final exam, 14% special projects, 24% laboratory evaluation.
Exam Format: Multiple choice, short answer, essay.

Ast 1011H Exploring the Universe, Honors
A-F only, 4 credit(s); High school trigonometry, [high school physics or chemistry] Credit will not be granted if credit has been received for: AST 1001; Meets CLE req of Environment; meets CLE req of Physical Sciences
Instructor: Woodward, Paul R
Description: This is the honors version (more mathematical) of AST 1001, which is our introductory course in Astronomy and Astrophysics. 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 how the study of the heavens has influence human thought and action. This course includes study of the properties of light and matter and the tools astronomers use to measure radiation from celestial sources. The course also covers exciting contemporary topics such as
black holes, the expansion of the universe and the search for extraterrestrial life. Although largely descriptive, the course will occasionally require the use of junior high level mathematics. This course has both a lecture AND lab component.

**Style:** 50% Lecture, 40% Laboratory.

**Grading:** 32% mid exam, 30% final exam, 14% special projects, 24% laboratory evaluation.

**Exam Format:** A possible combination of multiple-choice, short-answer and/or essay questions.

**Ast 1905 Freshman Seminar: Nothing**

OPT No Aud, 2 credit(s);

**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 tangled history of zero over the centuries, to our beginnings as seen by theologies when even nothing was not. In our journey through the teeming vacuum, "nothing" is sacred, and will be both ventured and gained. Caution is advised, however, in telling people that you've signed up for "nothing"!

**Style:** 50% Discussion, 25% Student Presentation, 25% Guest Speakers.

**Grading:** 40% reports/papers, 20% special projects, 20% in-class presentation, 20% class participation.

**Ast 1905 Freshman Seminar: Cosmic Catastrophes**

OPT No Aud, 2 credit(s);

**Instructor:** Rudnick, Lawrence

**Description:** Cosmic Catastrophes: As if you didn't have enough to worry about, this seminar will introduce you to many of the threats we face from the Earth and space, from earthquakes and volcanoes to asteroid impacts and supernova explosions. We will explore some of the potential threats for which we ourselves are responsible, such as climate change and nuclear war, and others that we just make up, like alien invasions. Also on the agenda are how we assess and respond to risk, and how to sleep at night with all of this hanging over our heads.

**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);

**Instructor:** Gehrz, Robert Douglas

**Description:** This is an introductory course for astronomy and astrophysics majors. You will be introduced to a broad range of topics in modern astrophysics, with an emphasis on how we measure astrophysical quantities and how we learn what these observations tell us about the physics of the universe. By the end of this class you will have a much greater facility with elementary theoretical calculations and making the kind of order of magnitude estimates that often guide work of scientists and engineers. The ultimate objective of the course is to give you the basic tools that you will need to read the current literature on astrophysics with a basic level of understanding.

**Style:** 50% Lecture, 20% Film/Video, 15% Discussion, 15% Demonstration.

**Grading:** 40% mid exam, 30% final exam, 30% problem solving.

**Exam Format:** Short answer and/or essay.

**Ast 2990 Directed Studies**

1-5 credit(s), max credits 5, 1 completion allowed;

**Instructor:** STAFF

**Description:** Independent, directed study in observational and theoretical astrophysics. Arrange with a faculty member.

**Ast 4002 Astrophysics II**

A-F only, 4 credit(s);

**Instructor:** Williams, Lillya L R

**Description:** Galaxies, structure and evolution, active galaxies. Clusters of galaxies, introductory cosmology.

**Style:** 30% Lecture, 50% Discussion. Student-led presentations and homework discussions.

**Grading:** 20% reports/papers, 15% in-class presentation, 45% class participation, 20% problem solving.

**Ast 4299H Senior Honors Astrophysics Research Seminar**

1 credit(s);

**Instructor:** STAFF

**Description:** An honors opportunity for upper division astronomy and astrophysics majors in the honors program. Based on our departmental research. Students are expected to attend weekly department seminars where current research is described. They will be asked to write short reports 2/3 of the talks during the semester.

**Style:** 100% Lecture.

**Grading:** 100% reports/papers.
Ast 4990 Directed Studies
1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: STAFF
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; Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Independent research in observational or theoretical astrophysics. Senior Thesis for undergraduate astrophysics majors. Arrange with faculty member.

Ast 5012 The Interstellar Medium
4 credit(s);
Instructor: Jones, Terry J
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 8031 Astrophysical Fluid Dynamics
4 credit(s);
Instructor: Jones, Thomas Walter
Description: This course provides an introduction to the physics of fluid motions with special emphasis on issues that are important in astrophysics. We will examine ideal and non-ideal fluids, compressible and incompressible flows. Both ordinary and magnetized, electrically conducting fluids will be discussed. Some specific topics include: shocks, common fluid instabilities, the origins of turbulence, magnetic dynamos and magnetic reconnection.
Style: 80% Lecture, 20% Discussion.
Grading: 25% mid exam, 35% final exam, 40% problem solving.
Exam Format: Midterm is in-class representative problems. Final is take-home, comprehensive using representative problems.

Ast 8200 Astrophysics Seminar
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Davidson, Kris
Description: Student may contact the instructor or department for information.

Biochemistry

BioC 1010 Human Health and Disease
3 credit(s);
Instructor: Laporte, David C
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
BioC 3021 Biochemistry

Instructor: Siliciano, Paul G

Description: Purpose: To survey the fundamentals of chemistry and biochemistry as they apply to the organization, function and regulation of living systems, especially humans. Course Content: This course will review key elements of general chemistry and will introduce you to the disciplines of organic and biochemistry. Lectures in combination with readings in the textbooks will begin with components of general chemistry that are critical for an understanding of biochemistry. This will be followed by a review of organic chemistry principles and structures, again with a focus on material that is most important for an understanding of biochemistry. The last half of the course will be concerned with the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of chemical equilibria, enzyme catalysis, and bioenergetics; fundamental metabolic pathways; and the chemical nature of genetic information storage and transmission. The ultimate objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare you to comprehend the composition of living cells and their physiological processes at the molecular level.

Required Textbook: Fundamentals of General, Organic & Biological Chemistry, 6th Edition, by McMurry/Castellion/Ballantine/Hoeger/Peterson Prentice-Education, Inc. 2007. This textbook is available for purchase at Books Underground, 7 Student Center, St. Paul campus and Coffman Memorial Union Bookstore, Minneapolis campus. Please check with instructor about the use of earlier additions. The text is also available on Amazon.com for a reduced price relative to the bookstore. If you elect this route a new or used copy with or without the MasteringChemistry Access Card can be ordered. At the end of the semester the book can easily be sold back on Amazon.com for little net loss.

Style: 100% Lecture.

Grading: There are 4 exams and each exam is 25% of grade, totaling 100%
BioC 3021 Biochemistry
3 credit(s); [CHEM 2301, [BIOL 1002 or BIOL 1009 or BIOL 2003]] or instr consent
Credit will not be granted if credit has been received for: BIOC 6021;
Instructor: Roon, Robert 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. 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.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams

BioC 3021 Biochemistry
3 credit(s); [CHEM 2301, [BIOL 1002 or BIOL 1009 or BIOL 2003]] 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.
Style: 100% Lecture.
Grading: 75% mid exam, 25% final exam.
Exam Format: Short answer, multiple choice, solve problems, short essays, write structures

BioC 3021 Biochemistry
3 credit(s); [CHEM 2301, [BIOL 1002 or BIOL 1009 or BIOL 2003]] or instr consent
Credit will not be granted if credit has been received for: BIOC 6021;
Instructor: Schottel, Janet L
Description: This course is a one-semester survey of the fundamentals of biochemistry and is part of the core curriculum required for a Biology major in the College of Biological Sciences. The objective of this course is to provide a foundation for understanding the chemistry of biological systems, i.e., to prepare the student to comprehend the composition of living cells and their physiological processes at the molecular level. Lectures consider the structure and function of proteins, nucleic acids, lipids, and carbohydrates; principles of acid-base equilibria, enzyme catalysis and bioenergetics; fundamental metabolic pathways, and the chemical nature of genetic information storage and expression. The prerequisite reflects the strong emphasis on facility with organic chemistry. This course requires regular study effort on the part of the student. Students who plan to major in biochemistry should enroll in the alternate two-semester series, BioC 4331 and BioC 4332.
Style: 100% Lecture.
Grading: 75% mid exam, 25% final exam.
Exam Format: Short answer, write structures, multiple choice, solve problems, short essays

BioC 3321 Biochemistry
A-F only, 3 credit(s);
Instructor: Prat-Resina, Xavier
Description: Student may contact the instructor or department for information.

BioC 3960 Research Topics in Biochemistry
S-N only, 1 credit(s), max credits 2;
Instructor: Laporte, David C
**BioC 4025 Laboratory in Biochemistry**  
*2 credit(s);*  
**Instructor:** Lange, Alex John  
**Description:** Theory and practice of modern biochemical techniques including buffers and pH, protein (lactate dehydrogenase) purification, protein electrophoresis, enzyme characterization using kinetics and immunochemical methods, recombinant DNA techniques.  
**Style:** 40% Lecture, 60% Laboratory.  
**Grading:** 33% mid exam, 34% final exam, 33% quizzes.  
**Exam Format:** short answer and problems

**BioC 4325 Laboratory in Mass Spectrometry**  
*S-N only, 1 credit(s);*  
**Instructor:** Nelsestuen, 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);*  
**Instructor:** Wilmot, Carrie M  
**Description:** "Biochemistry I: structure, catalysis, metabolism in biological systems." The first 14 lectures review basic chemical concepts and then discuss primary structure (amino acids and sequence), secondary structure (helices, sheet turns), tertiary structure (folding, three dimensional structure) and quaternary structure (subunits and their interactions) of proteins. The next 15 lectures deal with enzyme kinetics and mechanisms and binding interactions. The next 9 lectures discuss carbohydrates, lipid and membrane structures, transport processes. The final 19 lectures discuss metabolic pathways including, glycolysis, glycogen synthesis, the citric acid cycle, oxidative phosphorylation, amnio acid and nitrogen metabolism, and lipid synthesis and metabolism. Thermodynamic considerations are emphasized for all pathways. Most students in the class are expected to be Biochemistry majors.  
**Style:** 90% Lecture, 10% Discussion.  
**Grading:** 45% mid exam, 25% final exam, 20% quizzes, 10% problem solving.  
**Exam Format:** Combination of multiple choice, short answer and problem solving

**BioC 4332 Biochemistry II: Molecular Mechanisms of Signal Transduction and Gene Expression**  
*4 credit(s);*  
**Instructor:** Hendrickson, Eric A  
**Description:** BioC 4332 covers fundamental molecular biology and signal transduction. The course begins with the molecules and processes by which cells store, replicate, repair and express genetic information in the form of DNA, RNA and proteins. The latter part of the course describes regulatory processes that involve control of gene expression and mechanisms of signal transduction. The emphasis in the course is on the biochemical basis of gene function and biological regulatory processes. This course is designed for upper division undergraduates in the biological sciences, as well as beginning graduate students in other biological programs.  
**Style:** 90% Lecture, 10% Discussion.  
**Grading:** 75% mid exam, 25% final exam.  
**Exam Format:** Exams will have both short answer (multiple choice, fill-in-the-blank) questions (approx. 30-40%) and longer answer formats requiring you to explain and diagram concepts.

**BioC 4521 Introduction to Physical Biochemistry**  
*3 credit(s);*  
**Instructor:** Aihara, Hideki  
**Description:** Student may contact the instructor or department for information.

**BioC 4793W Directed Studies: Writing Intensive**  
*S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;Meets CLE req of Writing Intensive*  
**Instructor:** STAFF  
**Description:** Individual study on selected topics of problems. Emphasizes readings, use of scientific literature. Writing Intensive.
BioC 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Laboratory or field investigation of selected areas of research. Writing Intensive.

BioC 4993 Directed Studies
S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
Instructor: STAFF
Description: Individual study on selected topics or problems with emphasis on selected readings and use of scientific literature.

BioC 4994 Directed Research
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed;
Instructor: STAFF
Description: Laboratory or field investigation of selected areas of research.

BioC 5216 Current Topics in Signal Transduction
A-F only, 3 credit(s);
Instructor: Kim, Do-Hyung
Description:

BioC 5225 Graduate Laboratory in NMR Techniques
S-N only, 1 credit(s);
Instructor: Tata, Gopinath
Description:

BioC 5309 Biocatalysis and Biodegradation
3 credit(s); Credit will not be granted if credit has been received for: MICE 5309;
Instructor: Wackett, Lawrence Philip

BioC 5352 Biotechnology and Bioengineering for Biochemists
A-F only, 3 credit(s); [3021 or 4331 or BIOL 3021 or or MICB 4111], [BIOL 3301 or MICB 3301] or instr consent Credit will not be granted if credit has been received for: MICB 5352;
Instructor: Schmidt-Dannert, Claudia
Description: This class will provide a comprehensive introduction to major topics in biotechnology research and development. Topics that will be discussed range from isolation, recombinant production and engineering of biotechnological relevant proteins (e.g. industrial enzymes, biocatalysts and therapeutic proteins) to small molecule biotechnology. The latter topics include the production of important primary (e.g. amino acids, organic acids) and secondary (e.g. antibiotics and other bioactive molecules) metabolites, as well as strategies of metabolic pathway engineering and diversification in the "Omics" area to achieve increased production levels and for drug discovery purposes. Several guest lecturers from local biotechnology/biomedical companies will link class contents to practical applications and provide insights into actual industrial research and development.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% quizzes.

BioC 5444 Muscle
3 credit(s); 3021 or BIOL 3021 or 4331 or BIOL 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);
Instructor: Thomas, David D
Description: Principles and applications of kinetics and spectroscopy in the study of structure and dynamics of biological macromolecules, with a particular focus on enzymes
**BioC 6021 Biochemistry**

3 credit(s); general biology, organic chemistry, instr consent; intended for MBS students

*Credit will not be granted if credit has been received for: BIOC 3021;*

**Instructor:** Siliciano, Paul G

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

**Style:** 100% Lecture.

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

**Exam Format:** Short answer, multiple choice, solve problems, short essays, write structures.

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**BioC 6021 Biochemistry**

3 credit(s); 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 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 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.

**Style:** Online

**Grading:** See attached syllabus

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

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**BioC 6021 Biochemistry**

3 credit(s); general biology, organic chemistry, instr consent; intended for MBS students

*Credit will not be granted if credit has been received for: BIOC 3021;*

**Instructor:** Adolph, Kenneth W.

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

**Style:** 100% Lecture.

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

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**BioC 6021 Biochemistry**

3 credit(s); general biology, organic chemistry, instr consent; intended for MBS students

*Credit will not be granted if credit has been received for: BIOC 3021;*

**Instructor:** Schottel, Janet L

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

**Style:** 100% Lecture.

**Grading:** 75% 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;
Instructor: Ohlendorf, Douglas Henry
Description: Student may contact the instructor or department for information.

BioC 8184 Graduate Seminar
S-N only, 1 credit(s), max credits 5, 5 completions allowed;
Instructor: Potter PhD, Lincoln Ross
Description: Student may contact the instructor or department for information.

BioC 8401 Ethics, Public Policy, and Careers in Molecular and Cellular Biology
S-N only, 1 credit(s), max credits 2;
Instructor: Bernlohr, David Allen
Description: Ethics of scientific investigation from 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, 25% Discussion, 10% Small Group Activities, 10% Student Presentation, 25% Guest Speakers.
Grading: 100% in-class presentation.

Bioethics, Center for N-504 Boynton Health Service

BTHX 5000 Topics in Bioethics: Genetics: Law & Ethics
3 credit(s), max credits 8;
Instructor: Van Ness, Brian George
Description: This interdisciplinary seminar will examine the legal, ethical, medical, and scientific issues posed at the cutting edge of biomedical science, focusing on genetics, genomics, and assisted reproductive technologies (ART) in human beings. Topics will include the human genome project; history of eugenics; issues posed by genetic and genomic research; commercialization of genetic research, including issues raised by gene patents; genetic testing, counseling, and screening; prenatal screening and preimplantation genetic diagnosis; the use of genetics in ART; human gene therapy; pharmacogenetics; the privacy of genetic information; and issues of discrimination. For 3rd year law students, this course may fulfill the 3rd year writing requirement. Graduate students only.
Style: Each student's grade for the class will be based on both the paper (67%) and class participation including paper presentation (33%).

BTHX 5000 Topics in Bioethics: Pediatric Ethics
2 credit(s), max credits 8;
Instructor: Brunnquell, Donald Joseph
Description: This course will offer an interdisciplinary forum to explore the major issues of applied bioethics in the care of children. A brief review of moral theory and the history, philosophy, and sociology of childhood will provide the context for pediatric bioethics. It will move into topical discussion of major issues including who decides for the child, child development and how to account for emerging autonomy. This course is intended to reach across the spectrum of both professional and academic disciplines working with children such as medicine, nursing, psychology, social work, law, public health, and education, as well as child development, anthropology, and philosophy. Topics addressed include: refusal of treatment by the child and/or parents; perinatal/neonatal issues; end of life and decisions to withhold or withdraw treatment; organ transplantation and donation for and by children; futile treatment and international protocols; concepts of normality and disability; practical ethics consultation; enhancement of physical and cognitive skills; pediatric research; mental health issues, child maltreatment, and child welfare; public health and social justice issues such as poverty, disasters, and pandemic.
Style: 45% Lecture, 45% Discussion, 10% Student Presentation.
Grading: 35% reports/papers, 50% class participation. 15% case and glossary

BTHX 5000 Topics in Bioethics: Medical Consumerism
3 credit(s), max credits 8;
Instructor: Elliott Jr., Bruce Carleton
Description: Two related movements have emerged in American health care. The first is an emphasis on medical enhancement, or the use of medical technologies to improve the looks, performance and psychological well-being of people who are healthy. The second is the submission of the American health care system to the machinery of consumer capitalism. This seminar will use an interdisciplinary set of texts to explore the implications of medical consumerism. How is the consumerist model of medicine shaping our concepts of disease and disability? What larger historical developments have led to our current situation? How are the tools of medical enhancement shaping the way we think about our identities and the way we live our lives? Meets with BTHX 8610
BTHX 5000 Topics in Bioethics: Ethical Issues in Global Health
3 credit(s), max credits 8;
Instructor: Turner, Leigh
Description: This course will survey ethical issues in global health. Topics for consideration may include the sale of organs in countries such as Pakistan, assisted suicide clinics in Switzerland, access to treatment for HIV/AIDS in developing countries in Africa and Southeast Asia, international health disparities, and the connection between health and human rights. The course has no prerequisites, and is open to advanced undergraduate, graduate and professional students. Participation from students across a wide variety of fields will promote robust discussion of ethical issues.

BTHX 5100 Introduction to Clinical Ethics
3 credit(s);
Instructor: Miles MD, Steven Haverstock
Description: This course uses real cases to examine the most frequent ethical problems faced by clinicians, patients and families, and ethics consultants. Topics include forgoing life sustaining treatment, decisional capacity, informed consent, treatment refusals, death and dying, pediatric ethics, reproductive issues, research ethics, psychiatric illness and more. This course is intended for students in all fields, practicing clinicians, and members of ethics committees and consulting services.

BTHX 5325 Biomedical Ethics
3 credit(s);
Instructor: Elliott Jr, Bruce Carleton
Description: This course surveys major topics and issues in biomedical ethics including patients’ rights and duties, informed consent, confidentiality, ethical issues in medical research, the initiation and termination of medical treatment, euthanasia, abortion, and the allocation of medical resources.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8;
Instructor: Miles MD, Steven Haverstock
Description: Students propose an area for study with faculty guidance, expressed in a written proposal which includes outcome objectives and work plan. A faculty member directs the student’s work and evaluates their project.
Style: 100% Student Presentation.
Grading: 100% special projects.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8;
Instructor: Song, John Young
Description: Students propose an area for study with faculty guidance, expressed in a written proposal which includes outcome objectives and work plan. A faculty member directs the student’s work and evaluates their project.

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

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8;
Instructor: DeBruin PhD, Debra Ann
Description: Students propose an area for study with faculty guidance, expressed in a written proposal which includes outcome objectives and work plan. A faculty member directs the student’s work and evaluates their project.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8;
Instructor: Lisachenko, Joan
Description: Students propose an area for study with faculty guidance, expressed in a written proposal which includes outcome objectives and work plan. A faculty member directs the student’s work and evaluates their project.

BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8;
Instructor: Valapour, Maryam
Description: Students propose an area for study with faculty guidance, expressed in a written proposal which includes outcome objectives and work plan. A faculty member directs the student’s work and evaluates their project.
BTHX 5900 Independent Study in Bioethics
1-4 credit(s), max credits 8;
Instructor: Turner, Leigh
Description: Students propose an area for study with faculty guidance, expressed in a written proposal which includes outcome objectives and work plan. A faculty member directs the student’s work and evaluates their project.

BTHX 8000 Advanced Topics in Bioethics: Pediatric Ethics
2 credit(s), max credits 8;
Instructor: Brunnquell, Donald Joseph
Description: This course will offer an interdisciplinary forum to explore the major issues of applied bioethics in the care of children. A brief review of moral theory and the history, philosophy, and sociology of childhood will provide the context for pediatric bioethics. It will move into topical discussion of major issues including who decides for the child, child development and how to account for emerging autonomy. This course is intended to reach across the spectrum of both professional and academic disciplines working with children such as medicine, nursing, psychology, social work, law, public health, and education, as well as child development, anthropology, and philosophy. Topics addressed include: refusal of treatment by the child and/or parents; perinatal/neonatal issues; end of life and decisions to withhold or withdraw treatment; organ transplantation and donation for and by children; futile treatment and international protocols; concepts of normality and disability; practical ethics consultation; enhancement of physical and cognitive skills; pediatric research; mental health issues, child maltreatment, and child welfare; public health and social justice issues such as poverty, disasters, and pandemic.
Style: 45% Lecture, 45% Discussion, 10% Student Presentation.
Grading: 35% reports/papers, 50% class participation. 15% case and glossary

BTHX 8114 Ethical and legal Issues in Genetic Counseling
A-F only, 3 credit(s);
Instructor: LeRoy, Bonnie S
Description: This multidisciplinary course is available to graduate students in genetic counseling and other graduate students interested in ethical and legal issues that are faced by health care practitioners who see clients with genetic concerns. Students learn how to review and assess relevant scientific and bioethics literature and engage in the process of individual and group decision-making about current ethical and legal challenges in human genetics. Meets with GCD 8914
Style: 25% Lecture, 50% Discussion, 25% Guest Speakers.
Grading: 50% Class participation and teaching project, 25% annotated Bibliography, 25% final paper

BTHX 8500 Practicum in Bioethics
OPT No Aud, 1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: Miles MD, Steven Haverstock
Description: Student may contact the instructor or department for information.

BTHX 8500 Practicum in Bioethics
OPT No Aud, 1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: Song, John Young
Description: Student may contact the instructor or department for information.

BTHX 8500 Practicum in Bioethics
OPT No Aud, 1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: Wolf, Susan M
Description: Student may contact the instructor or department for information.

BTHX 8500 Practicum in Bioethics
OPT No Aud, 1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: DeBruin PhD, Debra Ann
Description: Student may contact the instructor or department for information.

BTHX 8500 Practicum in Bioethics
OPT No Aud, 1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: Liaschenko, Joan
Description: Student may contact the instructor or department for information.

BTHX 8500 Practicum in Bioethics
OPT No Aud, 1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: Valapour, Maryam
BTHX 8500 Practicum in Bioethics  
OPT No Aud, 1-4 credit(s), max credits 16, 4 completions allowed;  
Instructor: Turner, Leigh  
Description: Student may contact the instructor or department for information.

BTHX 8610 Medical Consumerism  
3 credit(s);  
Instructor: Elliott Jr, Bruce Carleton  
Description: Two related movements have emerged in American health care. The first is an emphasis on medical enhancement, or the use of medical technologies to improve the looks, performance and psychological well-being of people who are healthy. The second is the submission of the American health care system to the machinery of consumer capitalism. This seminar will use an interdisciplinary set of texts to explore the implications of medical consumerism. How is the consumerist model of medicine shaping our concepts of disease and disability? What larger historical developments have led to our current situation? How are the tools of medical enhancement shaping the way we think about our identities and the way we live our lives? Meets with BTHX 5000

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

BTHX 8900 Advanced Independent Study in Bioethics  
1-4 credit(s), max credits 8;  
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.

Biology 123 Snyder Hall
Biol 1001 Introductory Biology: 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
Instructor: STAFF
Description: Biol 1001, Introductory Biology: Evolutionary and Ecological Perspectives introduces the discipline of biological science by focusing on the fundamental concept underlying all of biology-biological evolution. The course examines the mechanisms of evolution, the genetics underlying the process of heredity and evolutionary change (both within populations and as new species arise), and the historical context and social implications of the theory of evolution. You will learn about the evolutionary history of life on Earth (including the evolution of humans), sexual selection, and the evolution of behavior. We will also explore how evolution affects your life. At the end of the course, these concepts are put into the context of population, community, and ecosystem ecology, and conservation biology.
Style: 65% Lecture, 35% Laboratory.
Grading: 33% mid exam, 25% final exam, 15% reports/papers, 16% quizzes, 4% in-class presentation, 7% problem solving, homework.
Exam Format: multiple choice lecture exams

Biol 1003 Evolution and Biology of Sex
4 credit(s);Credit will not be granted if credit has been received for: BIOL 1001;Meets CLE req of Biological Sciences
Instructor: Decker, Mark David
Description: Student may contact the instructor or department for information.

Biol 1003 Evolution and Biology of Sex
4 credit(s);Credit will not be granted if credit has been received for: BIOL 1001;Meets CLE req of Biological Sciences
Instructor: Cotner, Sehoya H
Description: Biol 1003, The Evolution and Biology of Sex examines evolution of sexual reproduction, genetics and biology of sex determination, sexual selection, human reproduction, disease transmission, the biology of love, human behavior, overpopulation and resource depletion. In both lecture and laboratory, you will explore what sex can teach us about ourselves by using scientific reasoning, articulation of testable hypotheses, and scientific data analysis. At the end of the course, you will have a better understanding of how sex affects our lives and be prepared to continue to learn about this fascinating topic.
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 1003 Evolution and Biology of Sex
4 credit(s);Credit will not be granted if credit has been received for: BIOL 1001;Meets CLE req of Biological Sciences
Instructor: Hebert, Sadie L
Description: Student may contact the instructor or department for information.

Biol 1009 General Biology
4 credit(s);high school chemistry; 1 term college chemistry recommendedCredit will not be granted if credit has been received for: BIOL 1009H;Meets CLE req of Biological Sciences
Instructor: STAFF
Description: Biol 1009, General Biology, is a course for non-CBS majors seeking a broad survey of biology in a single semester. The course covers the major concepts and principles of contemporary biology and also provides the foundation needed to pursue further studies in the biological sciences. 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. If you are in pre-health sciences or another science major outside of CBS, you may need Biol 1009 to fulfill expectations of professional or graduate schools in your future.
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 1009 General Biology
4 credit(s);high school chemistry; 1 term college chemistry recommendedCredit will not be granted if credit has been received for: BIOL 1009H;Meets CLE req of Biological Sciences
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 information. The course focuses on four fields of biology: cell biology, genetics, evolution, and ecology.
Style: Online
Grading: See attached syllabus

Biol 1009H Honors: General Biology
4 credit(s); high school chemistry, honors; one term of college chemistry recommended
Credit will not be granted if credit has been received for: BIOL 1009;
Meets CLE req of Biological Sciences
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 1010 Human Biology: Concepts and Current Ethical Issues
4 credit(s); Meets CLE req of Biological Sciences; meets CLE req of Civic Life and Ethics
Instructor: Price, Michele Boeing
Description: In this course we will explore how the human body functions and develop an understanding of current issues in science. We will examine structures from the smallest units of life to the whole organism, including learning modules on how different cells, organs and organ systems work. Along with learning the essential human structural form and function, we will also have weekly discussions and/or debates on ethics, which considers many interesting topics on how we as humans impact our society and environment. Debate topics may include: Should we use human stem cells for therapy? What are the promises and perils of genetic testing? Voluntary breast removal to prevent cancer… Could you do it? Is overweight overstated? Who should make life and death decisions for you? The laboratory includes opportunities to learn more about anatomical features and measure different functions of the human body. In addition, in order to more effectively understand human biological processes, animal dissections are required. Special attention is placed upon mammalian anatomy through dissection of the fetal pig.
Style: 65% Lecture, 35% Laboratory. Lectures include active learning exercises in small groups, discussions and debates.
Exam Format: Lecture exams are multiple choice.

Biol 1020 Biology Colloquium
S-N only, 1 credit(s), max credits 2;
Instructor: Silflow, Carolyn D.
Description: Student may contact the instructor or department for information.

Biol 1050 Environmental Biology: Science and Solutions
3 credit(s); Meets CLE req of Environment
Instructor: Wassenberg, Deena Marie
Description: What are environmentally sound food choices? Is global warming a conspiracy? Are pesticides turning male frogs into females? These and other questions are explored in Biology 1050. Our Global Environment: Science and Solutions. This course meets the CLE ENV theme, has no prerequisites and is appropriate for individuals with some high school science background. We will focus on approaching environmental problems as scientists. This course will approach the topics of biodiversity, environmental toxicology, food choices and global climate change, concentrating on the skills of inquiry that can be applied to any scientific question. This means we will evaluate data and experimental design, we will propose experiments and we will learn to carefully consider sources of data. For more information contact Deena Wassenberg (deenaw@umn.edu)

Biol 1055 Environmental Biology: Science and Solutions with Laboratory
4 credit(s); Meets CLE req of Biological Sciences; meets CLE req of Environment
Instructor: Wassenberg, Deena Marie
Description: Student may contact the instructor or department for information.

Biol 1093 Biology Colloquium: Directed Study
S-N only, 1 credit(s);
Instructor: Silflow, Carolyn D.
Biol 1101W Heredity and Human Society  
3 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive  
**Instructor:** Fan, David P  
**Description:** This is an introductory course covering genetics and bioethics, meeting both the writing intensive and Civic Life and Ethics Theme of the University. The genetics is presented in lecture, focuses on humans, and is tested using multiple choice exams. The ethics component involves writing papers on ethical case studies, both to present interesting ethical problems and to resolve ethical issues. The material for the papers is presented by students to the class to get feedback useful for improving the papers, thereby fulfilling the feedback requirement of writing intensive courses.  
**Style:** 66% Lecture, 34% Discussion.  
**Grading:** 40% mid exam, 20% final exam, 40% reports/papers.  
**Exam Format:** multiple choice

Biol 1806 Nature of Life, Part Two  
S-N only, 0.5 credit(s);  
**Instructor:** Wright, Robin  
**Description:** Student may contact the instructor or department for information.

Biol 1905 Freshman Seminar for the Biological Sciences: Introduction to Eugenics  
A-F only, 2 credit(s), max credits 6;  
**Instructor:** Brambl, Robert Morgan  
**Description:** Eugenics is a pseudo-scientific social movement intended to improve the genetic composition of the human population. Eugenics employs selection of desirable hereditary traits through higher reproduction of those more desirable individuals and suppressed reproduction of less desirable individuals. This course will trace the origins and history of the eugenics movement and its social consequences. At the peak of the movement's popularity in the 1920s, eugenics was advocated by a number of prominent public figures, including politicians and academics. The American Progressive Movement was attracted by the goal of using the promise of science to cure social ills. Its most infamous proponent was Adolph Hitler, who praised the US eugenics movement and eagerly applied its principles and practice in Nazi Germany. Minnesota was well represented in this movement by local figures. The eugenics movement continued to be influential even into the 1980s in some states, such as Oregon, where forced sterilizations and castrations were routine in institutions for the ?feeble? and ?insane?, for habitual criminals, and for homosexuals. In this course, students will read assigned essays and lead class discussions on the contents of these essays. The grade (S/N) will depend upon class contributions and preparation.

A-F only, 1 credit(s), max credits 6;  
**Instructor:** Hackett Jr, Perry B  
**Description:** DNA and Genomes? they are discussed in just about every modern context, from modern medical science and biotechnology to crime scene investigations, law, medical insurance policies, and ethics of retooling animal and plant genomes. In this seminar we will consider interfaces between science, politics, religion and the press. The topic 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 bioethics, genetic counseling, CSI in Minnesota, and a state legislator, as well as DNA profiling in medicine, the future of retooling of plant and animal genomes, and human evolution in the future. We will try to develop personal strategies that will allow us to evaluate controversies pertaining to recent findings and applications of DNA technologies.

Biol 1905 Freshman Seminar for the Biological Sciences: Be Like Jobs  
A-F only, 1 credit(s), max credits 6;  
**Instructor:** Fendos, Justin Eric  
**Description:** Steve Jobs and other successful individuals are often set apart from their peers by the ability to communicate effectively. Clarity, focus, and simplicity are some of the characteristics that drove the innovation of Apple's more successful products while also allowing Jobs to be an effective communicator. Especially for science students of this century, the ability to give Powerpoint presentations is one of the most useful and important skills for success. This course will cover some of the more basic elements of a good science-oriented Powerpoint while providing a forum for students to practice their presentation skills and critique the performance of others.

Biol 1905 Freshman Seminar for the Biological Sciences: Doing the Impossible in Dublin  
A-F only, 3 credit(s), max credits 6;  
**Instructor:** Letawsky Shultz, Nikki  
**Description:** Automobiles. Pacemakers. iPods. Our world is continually shaped by great ideas. Humans are naturally creative beings (just listen to any group of preschoolers playing!) but our brains can constrain innovative thinking through
fear, the urge to conform, and the tendency to interpret information in familiar ways. This seminar will explore biological and social perspectives of creativity and innovation through studying familiar technological examples and iconoclasts - innovators, like Apple, Disney Pixar, and Henry Ford, who do things differently to achieve the impossible. As a class we will move beyond our natural constraints to see things differently in Dublin, Ireland, and further our understanding of how people, organizations and locations can foster creative industries. Dublin is the emerging "heart of technology in Europe" and home to a slew of start-ups and proven gurus such Google, Facebook, and Amazon.

**Biol 1905 Freshman Seminar for the Biological Sciences: Stem Cells**
- **A-F only, 1 credit(s), max credits 6;**
- **Instructor:** Kawakami, Yasuhiko
- **Description:** Stem cells are one of the rapidly growing topics in biology. Research into stem cells involves a wide range of interests, from basic biology, regeneration, clinical applications, as well as ethics. In this course, we will learn about and discuss the general features of stem cells: what they are, what scientists do with them, what stem cell therapies are available, and how they might be used in the future. We will also learn the difference between embryonic stem cells, which exist only in laboratory cultures, and tissue-specific stem cells, which exist in our bodies. By the end of this seminar, you will have a deeper insight into stem cells.

**Biol 2001 Career Planning for Biologists**
- **S-N only, 1 credit(s);**
- **Instructor:** Georgeson, Sara K I
- **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.
- **Style:** 100% Web Based.

**Biol 2002 Foundations of Biology for Biological Sciences Majors, Part I**
- **A-F only, 6 credit(s);** [CHEM 1021 or 1061 or equiv], CBS major, or dept 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
- **Instructor:** Mosser, Anna
- **Description:** Biol 2002 is the first semester of a year-long sequence designed for majors in the College of Biological Sciences. This course emphasizes evolution and genetics, as well as high levels of cognition, including application, analysis, problem solving, and innovation. The lecture/recitation sections are integrated with laboratory exercises to give students experience with many of the paradigms and basic methods of modern biology. Reflecting the nature of modern biological research, teamwork is an integral part of the entire course, including during the lecture/recitation portion (which we call "concept lab"). During concept lab, students work in teams of nine and subteams of two or three to apply their knowledge to problems and projects. The course emphasizes development of skills, including finding and analyzing information, synthesis of new knowledge in projects, and peer evaluation of project presentations and team contributions.
- **Class time:** 10% Lecture, 10% Team and Class discussion, 50% Laboratory, 30% Small Group Activities.
- **Work load:** 20-35 pages of reading per week; weekly quizzes; 20-25 pages writing per term; 3 exams; 1-2 projects.
- **This class meets the University's policy of 3 hours of effort per credit to earn an average grade. http://policy.umn.edu/Policies/Education/Education/STUDENTWORK.html**
- **Grading:** 15% quizzes.
Instructor: Wick, Susan M
Description: Biol 2002 is the first semester of a year-long sequence designed for majors in the College of Biological Sciences. This course emphasizes evolution and genetics, as well as high levels of cognition, including application, analysis, problem solving, and innovation. The lecture/recitation sections are integrated with laboratory exercises to give students experience with many of the paradigms and basic methods of modern biology. The nature of modern biological research, teamwork is an integral part of the entire course, including during the lecture/recitation portion (which we call "concept lab"). During concept lab, students work in teams of nine and subteams of two or three to apply their knowledge to problems and projects. The course emphasizes development of skills, including finding and analyzing information, synthesis of new knowledge in projects, and peer evaluation of project presentations and team contributions. Class time: 10% Lecture, 10% Team and Class discussion, 30% Team-based Activities, 50% Laboratory. This class is based on a team-based learning model. Work load: 20-35 pages of reading per week; weekly quizzes; 20-25 pages writing per term; 3 exams; 1-2 projects. This class meets the University's policy of 3 hours of effort per credit to earn an average grade. http://policy.umn.edu/Policies/Education/Education/STUDENTWORK.html Grade: Grades are based on multiple assessments that enable students to demonstrate their mastery of content and skills in a variety of modes, including: a. Essay-based assessments such as essay exams, take-home exams, weekly reflections, and journals (25%); b. Multiple choice quizzes (15%); c. Team work, including team quizzes, team projects, and team evaluation (25%); and d. Laboratory performance (35%)
Style: 10% Lecture, 10% Discussion, 50% Laboratory, 30% Small Group Activities.
Grading: 15% quizzes.

Biol 2002 Foundations of Biology for Biological Sciences Majors, Part I
A-F only, 6 credit(s); [CHEM 1021 or 1061 or equiv], CBS major) or dept 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
Instructor: Gibbens PhD, Brian
Description: Biol 2002 is the first semester of a year-long sequence designed for majors in the College of Biological Sciences. This course emphasizes evolution and genetics, as well as high levels of cognition, including application, analysis, problem solving, and innovation. The lecture/recitation sections are integrated with laboratory exercises to give students experience with many of the paradigms and basic methods of modern biology. Reflecting the nature of modern biological research, teamwork is an integral part of the entire course, including during the lecture/recitation portion (which we call "concept lab"). During concept lab, students work in teams of nine and subteams of two or three to apply their knowledge to problems and projects. The course emphasizes development of skills, including finding and analyzing information, synthesis of new knowledge in projects, and peer evaluation of project presentations and team contributions. Class time: 10% Lecture, 10% Team and Class discussion, 30% Team-based Activities, 50% Laboratory. This class is based on a team-based learning model. Work load: 20-35 pages of reading per week; weekly quizzes; 20-25 pages writing per term; 3 exams; 1-2 projects. This class meets the University's policy of 3 hours of effort per credit to earn an average grade. http://policy.umn.edu/Policies/Education/Education/STUDENTWORK.html Grade: Grades are based on multiple assessments that enable students to demonstrate their mastery of content and skills in a variety of modes, including: a. Essay-based assessments such as essay exams, take-home exams, weekly reflections, and journals (25%); b. Multiple choice quizzes (15%); c. Team work, including team quizzes, team projects, and team evaluation (25%); and d. Laboratory performance (35%)
Style: 10% Lecture, 10% Discussion, 50% Laboratory, 30% Small Group Activities.
Grading: 15% quizzes.

Biol 2002 Foundations of Biology for Biological Sciences Majors, Part I
A-F only, 6 credit(s); [CHEM 1021 or 1061 or equiv], CBS major) or dept 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
Instructor: Wright, Robin
Description: Biol 2002 is the first semester of a year-long sequence designed for majors in the College of Biological Sciences. This course emphasizes evolution and genetics, as well as high levels of cognition, including application, analysis, problem solving, and innovation. The lecture/recitation sections are integrated with laboratory exercises to give students experience with many of the paradigms and basic methods of modern biology. Reflecting the nature of modern biological research, teamwork is an integral part of the entire course, including during the lecture/recitation portion (which we call "concept lab"). During concept lab, students work in teams of nine and subteams of two or three to apply their knowledge to problems and projects. The course emphasizes development of skills, including finding and analyzing information, synthesis of new knowledge in projects, and peer evaluation of project presentations and team contributions. Class time: 10% Lecture, 10% Team and Class discussion, 30% Team-based Activities, 50% Laboratory. This class is based on a team-based learning model. Work load: 20-35 pages of reading per week; weekly quizzes; 20-25 pages writing per term; 3 exams; 1-2 projects. This class meets the University's policy of 3 hours of effort per credit to earn an average grade. http://policy.umn.edu/Policies/Education/Education/STUDENTWORK.html Grade: Grades are based on multiple assessments that enable students to demonstrate their mastery of content and skills in a variety of modes, including: a. Essay-based assessments such as essay exams, take-home exams, weekly reflections, and journals (25%); b. Multiple choice quizzes (15%); c. Team work, including team quizzes, team projects, and team evaluation (25%); and d. Laboratory
Biol 2002H Foundations of Biology for Biological Sciences Majors, Part I
A-F only, 6 credit(s); [[CHEM 1021 or 1061 or equiv], CBS major, honors student] or dept 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

Instructor: Mosser, Anna

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. This class is based on a team-based learning model.

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 I
A-F only, 6 credit(s); [[CHEM 1021 or 1061 or equiv], CBS major, honors student] or dept 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

Instructor: Wick, Susan M

Description: Biol 2002 is the first semester of a year-long sequence designed for majors in the College of Biological Sciences. This course emphasizes evolution and genetics, as well as high levels of cognition, including application, analysis, problem solving, and innovation. The lecture/recitation sections are integrated with laboratory exercises to give students experience with many of the paradigms and basic methods of modern biology. Reflecting the nature of modern biological research, teamwork is an integral part of the entire course, including during the lecture/recitation portion (which we call “concept lab”). During concept lab, students work in teams of nine and subteams of two or three to apply their knowledge to problems and projects. The course emphasizes development of skills, including finding and analyzing information, synthesis of new knowledge in projects, and peer evaluation of project presentations and team contributions.

Class time: 10% Lecture, 10% Team and Discussion, 30% Team-based Activities, 50% Laboratory. This class is based on a team-based learning model. Work load: 20-35 pages of reading per week; weekly quizzes; 20-25 pages writing per term; 3 exams; 1-2 projects. This class meets the University’s policy of 3 hours of effort per credit to earn an average grade. http://policy.umn.edu/Policies/Education/Education/STUDENTWORK.html

Grade: Grades are based on multiple assessments that enable students to demonstrate their mastery of content and skills in a variety of modes, including: a. Essay-based assessments such as essay exams, take-home exams, weekly reflections, and journals (25%); b. Multiple choice quizzes (15%); c. Team work, including team quizzes, team projects, and team evaluation (25%); and d. Laboratory performance (35%)

Style: 10% Lecture, 10% Discussion, 50% Laboratory, 30% Small Group Activities.

Grading: 15% quizzes.

Biol 2002H Foundations of Biology for Biological Sciences Majors, Part I
A-F only, 6 credit(s); [[CHEM 1021 or 1061 or equiv], CBS major, honors student] or dept 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

Instructor: Gibbens, PhD, Brian

Description: Biol 2002 is the first semester of a year-long sequence designed for majors in the College of Biological Sciences. This course emphasizes evolution and genetics, as well as high levels of cognition, including application, analysis, problem solving, and innovation. The lecture/recitation sections are integrated with laboratory exercises to give students experience with many of the paradigms and basic methods of modern biology. Reflecting the nature of modern biological research, teamwork is an integral part of the entire course, including during the lecture/recitation portion (which we call “concept lab”). During concept lab, students work in teams of nine and subteams of two or three to apply their knowledge to problems and projects. The course emphasizes development of skills, including finding and analyzing information, synthesis of new knowledge in projects, and peer evaluation of project presentations and team contributions.

Class time: 10% Lecture, 10% Team and Discussion, 30% Team-based Activities, 50% Laboratory. This class is based on a team-based learning model. Work load: 20-35 pages of reading per week; weekly quizzes; 20-25 pages writing per term; 3 exams; 1-2 projects. This class meets the University’s policy of 3 hours of effort per credit to earn an average grade. http://policy.umn.edu/Policies/Education/Education/STUDENTWORK.html

Grade: Grades are based on multiple assessments that enable students to demonstrate their mastery of content and skills in a variety of modes, including: a. Essay-based assessments such as essay exams, take-home exams, weekly reflections, and journals (25%); b. Multiple choice quizzes (15%); c. Team work, including team quizzes, team projects, and team evaluation (25%); and d. Laboratory performance (35%)

Style: 10% Lecture, 10% Discussion, 50% Laboratory, 30% Small Group Activities.

Grading: 15% quizzes.
Biol 2002H Foundations of Biology for Biological Sciences Majors, Part I
A-F only, 6 credit(s);[CHEM 1021 or 1061 or equiv], CBS major, honors student] or dept 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
Instructor: Wright, Robin
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. This class is based on a team-based learning model.
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 2003 Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);2002 or 2002H or CBS major
Credit will not be granted if credit has been received for: BIOL 2003H;
Instructor: Sterner, Robert Warner
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 second course emphasizes ecology and cell biology within the context of problem solving and application. The class uses team-based learning and student participation is strongly encouraged.

Biol 2003 Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);2002 or 2002H or CBS major
Credit will not be granted if credit has been received for: BIOL 2003H;
Instructor: Mosser, Anna
Description: Student may contact the instructor or department for information.

Biol 2003 Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);2002 or 2002H or CBS major
Credit will not be granted if credit has been received for: BIOL 2003H;
Instructor: Conklin, Kathleen F
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 second course emphasizes ecology and cell biology within the context of problem solving and application. The class uses team-based learning and student participation is strongly encouraged.

Biol 2003 Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);2002 or 2002H or CBS major
Credit will not be granted if credit has been received for: BIOL 2003H;
Instructor: Gibbens PhD, Brian
Description: Student may contact the instructor or department for information.

Biol 2003H Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);[2002 or 2002H], honors
Credit will not be granted if credit has been received for: BIOL 2003;
Instructor: Sterner, Robert Warner
Description: BIOL 2003H 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 second course emphasizes ecology and cell biology within the context of problem solving and application. The class uses team-based learning and student participation is strongly encouraged.

Biol 2003H Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);[2002 or 2002H], honors
Credit will not be granted if credit has been received for: BIOL 2003;
Instructor: Mosser, Anna
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 bio-molecules to ecosystems. This second course emphasizes ecology and cell biology within the context of problem solving and application. The class uses team-based learning and student participation is strongly encouraged.
Biol 2003H Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);[2002 or 2002H], honors
Credit will not be granted if credit has been received for: BIOL 2003;
Instructor: Conklin,Kathleen F
Description: BIOL 2003H 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 second course emphasizes ecology and cell biology within the context of problem solving and application. The class uses team-based learning and student participation is strongly encouraged.

Biol 2003H Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);[2002 or 2002H], honors
Credit will not be granted if credit has been received for: BIOL 2003;
Instructor: Gibbens PhD,Brian
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 bio-molecules to ecosystems. This second course emphasizes ecology and cell biology within the context of problem solving and application. The class uses team-based learning and student participation is strongly encouraged.

Biol 2003H Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);[2002 or 2002H], honors
Credit will not be granted if credit has been received for: BIOL 2003;
Instructor: Somia,Nikunj V
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 bio-molecules to ecosystems. This second course emphasizes ecology and cell biology within the context of problem solving and application. The class uses team-based learning and student participation is strongly encouraged.

Biol 2003H Foundations of Biology for Biological Sciences Majors, Part II
A-F only, 3 credit(s);[2002 or 2002H], honors
Credit will not be granted if credit has been received for: BIOL 2003;
Instructor: Seabloom,Eric
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 bio-molecules to ecosystems. This second course emphasizes ecology and cell biology within the context of problem solving and application. The class uses team-based learning and student participation is strongly encouraged.

Biol 2004 Foundations of Biology for Biological Sciences Majors, Part II Laboratory
A-F only, 3 credit(s);[2002 or 2002H or CBS major]
Credit will not be granted if credit has been received for: BIOL 2004H;
Instructor: Kirkpatrick,Catherine
Description: Biol 2004 is intended for majors in the College of Biological Sciences. It accompanies Biol 2003. This course emphasizes application of quantitative skills, concepts, and modern molecular tools to biological problems through independent research on real-world questions. Students will meet regularly with instructors, but they also will be responsible for scheduling their time in an open lab in order to complete their research project. Students should expect to spend 4-6 hours per week in the lab. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.

Biol 2004 Foundations of Biology for Biological Sciences Majors, Part II Laboratory
A-F only, 3 credit(s);[2002 or 2002H or CBS major]
Credit will not be granted if credit has been received for: BIOL 2004H;
Instructor: Kirkpatrick,Catherine
Description: Student may contact the instructor or department for information.

Biol 2004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory
A-F only, 3 credit(s);[2002 or 2002H], honors
Credit will not be granted if credit has been received for: BIOL 2004;
Instructor: Kirkpatrick,Catherine
Description: Biol 2004H is intended for majors in the College of Biological Sciences. It accompanies Biol 2003H. This course emphasizes application of quantitative skills, concepts, and modern molecular tools to biological problems through independent research on real-world questions. Students will meet regularly with instructors, but they also will be responsible for scheduling their time in an open lab in order to complete their research project. Students should expect to spend 4-6 hours per week in the lab. At the end of this course, students will be qualified to enter a faculty research lab, internship, or other venue of active science.
Biol 2005 Animal Diversity Laboratory
2 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 mammalian 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 2007 Marine Animal Diversity Laboratory
A-F only, 2 credit(s);Introductory biology with labCredit will not be granted if credit has been received for: BIOL 2012;
Instructor: Galush,Tiffany Jayne
Description: Student may contact the instructor or department for information.

Biol 2012 General Zoology
4 credit(s);One semester of college biologyCredit will not be granted if credit has been received for: BIOL 2005;
Instructor: Engelhardt,Adam John
Description: Student may contact the instructor or department for information.

Biol 2022 General Botany
A-F only, 3 credit(s);
Instructor: Biesboer, David D.
Description: Scientific principles of plant biology including the evolution, organization, function, growth and development, and reproductive biology of plants and plant-like organisms. Includes lab.
Style: 60% Lecture, 40% Laboratory.
Grading: 100% other evaluation. see #2; 60% lecture/40% laboratory
Exam Format: Multiple choice, short answer and essay.

Biol 2100 Brewing: The Biology, History, and Practice
A-F only, 3 credit(s);
Instructor: Cotner, James B
Description: Student may contact the instructor or department for information.

Biol 2301 Leadership and Service
S-N only, 2 credit(s);
Instructor: Stein, Meaghan
Description: This course is designed for students in the CBS Dean's Scholars program to reflect on the importance of civic responsibility and service in leadership, understand how personal experiences influence perspectives on social issues, and learn techniques for effective group work. The course provides students with an opportunity to partner with a community organization for 20 hours during the semester, based on articulated service outcomes.

Biol 2311 Integrative Biology
A-F only, 5 credit(s);Meets CLE req of Biological Sciences; meets CLE req of Technology and Society
Instructor: Metzger, Kelsey Jean
Description: Student may contact the instructor or department for information.

Biol 2332 Anatomy and Physiology II
A-F only, 4 credit(s);
Instructor: Dunbar, Robert Lee
Description: Student may contact the instructor or department for information.
Biol 3211 Physiology of Humans and Other Animals
2 credit(s);
Instructor: Price, Michele Boeing
Description: This course is a comparative study of fundamental physiological mechanisms. It covers a broad range of topics including the structure and function of various organ systems in humans and other animals. The course will help you develop your own understanding of the basic principles of physiology, which will be useful in future studies and careers in related fields. 

Biol 3209 Understanding the Evolution-Creationism Controversy
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Moore, Randy
Description: This course will help you develop your own understanding of the evolution-creationism controversy and, in the process, prepare you to understand how the controversy (and its associated civic and ethical issues) affects communities in their everyday lives. Although we will discuss the science underlying evolution, most of controversy is based not on science, but on social and civic issues. We will examine how society has debated and otherwise dealt with the controversy, especially how 1) the controversy has developed in the past 150 years, and 2) how various ethical and civic issues have pervaded the controversy, and 3) how the controversy has been assessed by individuals, organizations, and communities (e.g., churches, politicians). Students will have many opportunities to apply their knowledge to modern versions of the controversy (e.g., "intelligent design") through discussions, assignments, guest speakers, and mock trials. These activities will 1) encourage you to think about how this controversy affects various people, organizations, and communities, 2) help you reflect on the roles of common and powerful societal forces such as science and religious faith, and 3) help you integrate the often-overlapping roles of science, politics, religious faith, and other aspects of modern society. Taken together, these activities will help you acquire the interests, skills, and breadth of experiences to be an informed and engaged citizen. The course-lectures, discussions, activities, and assignments will challenge you to understand how the many ethical principles, beliefs, and attitudes of individuals and various social groups were developed, affect, and are affected by, the ethical and societal intersections of science, religion, politics, and education. A basic part of this understanding is an awareness of how ethics influence how individuals and groups determine what should be done with important, contentious issues and information. For example, what processes do stakeholders such as educators, churches, and politicians use to address issues that involve collisions between society and religion? Finally, this course will help you develop your own understanding and appreciation of the evolution-creationism controversy. We'll discuss the many aspects of this controversy, including its history, legacy, relevance, and key people. We will also discuss a variety of issues related to the controversy, including those involving court decisions, public opinion, and related issues (e.g., racism, politics, etc.). 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.

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

Biol 3002 Plant Biology: Function
2 credit(s);
Instructor: Olszewski, Neil E
Description: You undoubtedly know that humans depend on plants for the oxygen that we breathe, our food and clothes, and for many of us, the houses in which we live. Of course this list can be expanded enormously (consider biofuels, wildlife habitat, the horticultural industry, medicines, etc.). This course examines how plants provide these services by investigating how they develop, grow, reproduce and interact with their environment. While plants may seem like simple organisms, they are in fact incredibly complex. Plants contain genomes that have profound effects on their growth and development, and obtain their nutrients entirely from the soil and atmosphere, sometimes with the aid of amazing partnerships with bacteria and fungi. Whether you are a student interested in how plants will respond to global climate change, how people can create sustainable agricultural systems, how scientists are using technology to create new crop varieties that are resistant to pathogens and tolerate poor soils and increasing temperatures, or are just interested in learning about the beautiful and fascinating mechanisms by which plants thrive, this course will provide you with a starting point for your future studies.

Style: 95% Lecture, 5% Film/Video.
Grading: 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.
organisms studied from the standpoint of evolution of functional systems, the mechanisms and morphological variations that exist to deal with functional problems posed by the environment. We will also explore disease conditions that result from abnormal function of one or several of the basic control systems of the body. Emphasis will be placed on nervous, endocrine, muscular, cardiovascular, immune, respiratory, renal, digestive, and reproductive physiology. Where appropriate, basic chemical and physical laws will be reviewed in order to enhance and to promote student understanding.

Biol 3270 Introduction To Systems Biology
A-F only, 3 credit(s);
Instructor: Libourel,Igor
Description: 3270 will introduce students to concepts and practices in Systems Biology. In this class we will see how many very simple biological parts can come together to form a complex phenotype. The properties of this phenotype are referred to as "emergent" because they arise from the combination of the pieces acting together. Systems Biology guides modern metabolic engineering efforts such as in Synthetic Biology, by predicting how a change of one of the biological components might change the organism as a whole. Metabolism is a popular subject to study within Systems Biology, because there is a clear relationship between the biological parts (genes, enzymes, metabolites) that form the complex metabolic phenotype of which the emergent properties can be studied and predicted. The first half of the course will introduce Matlab programming techniques by simple programming assignments such as simulation of bacterial movement using random walk, and foraging and migration of ants. The first lectures will introduce elementary linear algebra necessary for metabolic modeling. The second half of the course will focus on modeling of metabolism using the COBRA toolbox. This includes: 1) network reconstruction from genomic data; 2) analysis of metabolic potential of metabolic networks; 3) simulation of the effects of gene knockouts on metabolism, and; 4) Data-driven model improvement. The course will take advantage of the free Matlab toolbox COBRA to give participants hands on experience in how to acquire, integrate, and analyze data using tools developed by the Systems Biology community. By working with free software, students will retain access to the Systems Biology tools introduced in the class. To facilitate the laboratory part of the course, the required Matlab software and toolboxes will be installed on MSI, and each student will run an instance on the MSI server. Because students will only run (preferably on their own computers) consul software (Nomachine), most unforeseen software incompatibilities between operating systems and versions should be minimized.
Style: 30% Lecture, 70% Laboratory.
Grading: 25% mid exam, 35% final exam, 40% reports/papers.

Biol 3302 Leadership For Change
S-N only, 1 credit(s);
Instructor: Thul,Meaghan Miller
Description: Student may contact the instructor or department for information.

Biol 3341 Microbiology
A-F only, 2 credit(s);
Instructor: Laborde,Rebecca R
Description: Student may contact the instructor or department for information.

Biol 3342 Microbiology and Environmental Issues
A-F only, 1 credit(s);
Instructor: Laborde,Rebecca R
Description: Student may contact the instructor or department for information.

Biol 3345 Microbiology Lab
A-F only, 1 credit(s);
Instructor: Yue,Andrew Robin
Description: Student may contact the instructor or department for information.

Biol 3408W Ecology
3 credit(s);[One semester college biology], [MATH 1142 or MATH 1271 or MATH 1281 or equiv]Credit will not be granted if credit has been received for: EEB 3001;Meets CLE req of Writing Intensive
Instructor: Alstad,Donald Norman
Description: Biology 3408W offers an introduction to the growth, regulation, and structure of plant and animal populations; biotic interactions between species and their effects on community diversity and succession; trophic dynamics of ecosystems; cycling of carbon, nutrients, and energy; and ecological consequences of global change. It includes a series of lectures, and weekly subsection meetings for discussion, laboratory experiments, and computer simulation exercises designed to complement the lecture program and foster understanding of important issues. Biology 3408W has four principal learning objectives. First, the lecture program and section discussions introduce a wide range of ecological subjects and issues. Second, in lecture, lab experiments and via problem sets, we teach the quantitative and analytical skills required to conceptalize ecological dynamics. Third, because variances associated with measurement, replication,
and treatment effects are part of all empirical sciences, we offer practice in spreadsheet data manipulation, descriptive
statistics, the analysis of variance, and experimental design. Finally, because all scientists must convey the results of their
work, we coach students through preparation and completion of two written lab reports, one on a simple experiment largely
of our design, and one on an experiment that small collaborative student groups will design for themselves. Please note
that the biology and calculus prerequisites are not suggestions; they are requirements; Biol3408W makes extensive use of
that background. Note also that the Monday-Wednesday lecture program leaves a corresponding hole in participant
schedules on Friday mornings. Every Friday morning of term the Biol3408W staff will hold an informal coffee hour
beginning at 8:30AM in the St. Paul Student Union. Students who fill their Friday-morning schedule with some other activity
will miss the opportunity to participate in these optional weekly help sessions.

**Style:** 40% Lecture, 30% Discussion, 30% Laboratory. Weekly section meetings include discussion, lab experiments, data
analysis, and computer simulation exercises.

**Grading:** 25% mid exam, 25% final exam, 25% reports/papers, 20% written homework, 5% in-class presentation.

**Exam Format:** Multiple formats on each exam, including problems, short essays, multiple choice and true/false

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**Biol 3409 Evolution**

**3 credit(s); One semester college biology** Credit will not be granted if credit has been received for: BIOL 5409;
Instructor: Lanyon, Scott Merrill
Description: In the words of Theodosius Dobzhansky, "Nothing in Biology Makes Sense Except in the Light of Evolution."
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 for students to 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 (with active learning exercises) and weekly section meetings for labs, discussions,
and computer simulation exercises. The course readings are drawn primarily from Freeman and Herron Evolutionary
Analysis (4th edition, 2007). 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

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**Biol 3411W Introduction to Animal Behavior**

**A-F only, 4 credit(s); Undergrad biology course** Credit will not be granted if credit has been received for: BIOL
3411; Meets CLE req of Writing Intensive
Instructor: Snell-Rood, Emilie
Description: Student may contact the instructor or department for information.

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**Biol 3600 Directed Instruction**

**S-N only, 1-2 credit(s), max credits 6, 6 completions allowed;**
Instructor: Silflow, Carolyn D.
Description: Student may contact the instructor or department for information.

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

**S-N only, 1-6 credit(s), max credits 6, 6 completions allowed;**
Instructor: Moore, Whitney A
Description: Student may contact the instructor or department for information.
Biol 3700 Undergraduate Seminar: The human-animal relationship
1 credit(s), max credits 9, 3 completions allowed;
Instructor: Phillips, Jane Ann
Description: This seminar is designed for and limited to CBS majors. In it, we will explore philosophical, ethical, and practical aspects of our interactions with animals, first on a personal scale (as pets, food, recreation, work animals, pests), then focus on our interactions with animals in our scientific work (e.g., in medical, behavioral, ecological studies.) While we will usually be studying this from the Western culture viewpoint, we will also look at animal use in other cultures. In the end, the student will have a background to move toward a deeper understanding of this complex relationship. There will be weekly readings (10-30 pages) that will be used as a basis of discussions and reflections and one longer term paper in a relevant area of the student's choosing.
Style: 100% Discussion.
Grading: 40% reports/papers, 40% reflection paper, 20% class participation.

Biol 3700 Undergraduate Seminar: Deconstructing Research
2 credit(s), max credits 9, 3 completions allowed;
Instructor: Wright, Robin
Description: Student may contact the instructor or department for information.

Biol 3960H Communicating in the Biological Sciences
A-F only, 1 credit(s);
Instructor: Wick, Susan M
Description: This course is an honors seminar designed for juniors. Students will discuss the characteristics of effective oral and visual presentations, give a 15-minute, video-taped talk on an aspect of biology and engage in the scientific process of peer review and response to review.

Biol 4003 Genetics
3 credit(s); [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 Grad MBS major]] or instr consent Credit will not be granted if credit has been received for: GCD 3022;
Instructor: Springer, Nathan Michael
Description: This course is a survey of genetics for biology majors. The goal of this course is for students to develop an understanding of the principles of genetics. This includes understanding the transmission of genetic information from one generation to the next, how genetic information is expressed in cells and organisms and how the information within a population can change over time. The course will also discuss the practical applications of genetics and the new methods being used to understand genetic inheritance and genetic control of traits. Topics that will be covered in the course include Mendelian genetics, dominance, epistasis, probability & chi-square, sex chromosomes, nucleic acid & chromosome structure, replication of DNA, linkage, crossing over, gene mapping, recombination in microorganisms, transposable genetic elements, variations in chromosome number and structure, regulation of gene expression, mutation and DNA repair mechanisms, molecular genetics, cloning and sequencing of genes, genomics, the genetics of cancer, the inheritance of complex traits & heritability, and population genetics.
Style: 90% Lecture, 10% Discussion.
Grading: 40% final exam, 10% special projects, 50% additional semester exams.

Biol 4003 Genetics
3 credit(s); [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 Grad MBS major]] or instr consent Credit will not be granted if credit has been received for: GCD 3022;
Instructor: Lefebvre, Paul A
Description: Introduction to the nature of genetic information, its transmission from parents to offspring, its expression in cells/organisms, and its course in populations. Emphasis will be placed on mastery of concepts and not memorization, meaning that students will be expected to apply information to solve problems they have not encountered before. Class attendance is expected, and testing will be based on material presented in lecture.
Style: 100% Lecture. Biochemistry is a required pre-requisite for this course. If you do not have a working knowledge of protein and nucleic acid structure and synthesis you will be at a disadvantage.
Grading: 70% mid exam, 30% final exam.
Exam Format: Problem solving

Biol 4003 Genetics
3 credit(s); [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 Grad MBS major]] or instr consent Credit will not be granted if credit has been received for: GCD 3022;
Instructor: Shaw, Jocelyn E
Biol 4003 Genetics

3 credit(s); [[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 Grad MBS major]] or instr consent
Credit will not be granted if credit has been received for: GCD 3022;
Instructor: Brooker, Robert James
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Group work is emphasized. Visit "Class URL" for ODL policy, fee, and financial aid restrictions. This course is intended to provide you with a broad understanding of genetics. In the first part of the course you will explore the structure, replication, and expression of the genetic material known as deoxyribonucleic acid (DNA). As you examine DNA, you will gain an understanding of the molecular structure of DNA and its organization into genes. In the next part of the course, you will examine many types of inheritance patterns, including simple Mendelian inheritance, extra-chromosomal inheritance, linkage, and the quantitative traits that are determined by multiple genes. The last part of the course examines the genetic technologies that are used to analyze the genetic compositions of species and have applications in our everyday lives. This course ends with a consideration of genetics at the level of populations, and how the genetic compositions of populations evolve over time.
Style: Online with handwritten exams
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams

Biol 4004 Cell Biology

3 credit(s); 4003, [BIOC 3021 or BIOC 4331], [CBS major or CSE major or grad MSB major] Credit will not be granted if credit has been received for: GCD 4005W;
Instructor: Norrander PhD, Jan Marie
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. Focus on cell structure and the fundamental processes carried out by cells, with emphasis on eukaryotic animal cells. Methods used to study cells, membrane structure and transport, intracellular compartments and protein sorting, intracellular vesicular traffic, cell communication, the cytoskeleton, cell junctions and adhesion, the extracellular matrix, the cell cycle, apoptosis and cancer.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams

Biol 4004 Cell Biology

3 credit(s); 4003, [BIOC 3021 or BIOC 4331], [CBS major or CSE major or grad MSB major] Credit will not be granted if credit has been received for: GCD 4005W;
Instructor: Silflow, Carolyn D.
Description: Please note: For students who are not biology majors, there is a new spring semester course - GCD 3033, Principles of Cell Biology. It will cover the same basic information taught in Biol 4004, but it does not have the biochemistry and genetics prerequisites required for Biol 4004. Biol 4004 Cell Biology: This course is part of a core curriculum required for graduation with a Biology major in the College of Biological Sciences; the material covered in this course also will be applicable to other areas of science and technology. Because this course builds directly upon material covered in prerequisite courses in Biochemistry and Genetics, students who have already completed those courses will be able to integrate this entire body of knowledge to form a comprehensive view of the structure and function of cells, the building units of living organisms. A student enrolled in this course should know basic structures of nucleotides and nucleic acids, amino acids and proteins, carbohydrates, and lipids. He/she should be familiar with the basics of gene structure, transcription, protein synthesis; the basics of bioenergetics, respiration, photosynthesis, and the role of ATP; the basics of mitosis and meiosis; and the basic molecular biological techniques, such as gene cloning, cDNA preparation, DNA sequencing, the use of restriction enzymes. At the completion of this course, students should be familiar, for example, with the mechanisms by which cells replicate, transcribe and translate their genetic information, assemble organelles and
transport molecules to them, secrete proteins, move, respond to signals, interact with other cells, and divide. Students will learn to recognize and understand these fundamental processes common to all types of cells, in addition to understanding those processes unique to certain types of specialized or differentiated cells. Class sessions will include lecture (~80%) and class discussion (~20%). To accommodate different learning styles, the course material will include textbook assignments (Molecular Biology of the Cell by Alberts et al., 5th edition), lecture outlines and PowerPoint slides, supplementary videos, and a discussion session with the TA.

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

**Grading:** 60% mid exam, 30% final exam, 10% written homework.

**Exam Format:** multiple choice, short essay, use and interpret experimental data

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**Biol 4004 Cell Biology**

3 credit(s); [BIOC 3021 or BIOC 4331], [CBS major or CSE major or grad MSB major]

**Credit will not be granted if credit has been received for:** GCD 4005W;

**Instructor:** Koepp, Deanna

**Description:** Please note: For students who are not biology majors, there is a new spring semester course - GCD 3033, Principles of Cell Biology. It will cover the same basic information taught in Biol 4004, but it does not have the biochemistry and genetics prerequisites required for Biol 4004. Biol 4004 Cell Biology: This course is part of a core curriculum required for graduation in a number of biological science majors in the College of Biological Sciences. The material covered is also applicable to basic studies in other areas of science and technology. The course provides an intense introduction to the fundamentals of cellular systems, focusing on dynamic cellular activities at the molecular level. Significant emphasis is placed on understanding the experimental basis of our current knowledge of cellular processes. In this respect, this course is well suited to those students planning for advanced study, including graduate and medical school. The material covered in this course builds directly upon material covered in the prerequisite courses of Biochemistry and Genetics. Students will learn to recognize and understand fundamental processes common to all types of cells as well as understanding those processes unique to specialized or differentiated cells. At the completion of the course, students should be familiar with the mechanisms by which cells replicate and transcribe and translate their genetic information, secrete proteins, assemble organelles and transport molecules to them, move, respond to signals and divide. Course material will be presented in a combined lecture and discussion format. Students are encouraged to actively participate in class discussions and to ask questions.

**Style:** 75% Lecture, 15% Discussion, 10% Student Presentation.

**Grading:** 25% mid exam, 12% special projects, 12% written homework, 50% additional semester exams.

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

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**Biol 4004 Cell Biology**

3 credit(s); [BIOC 3021 or BIOC 4331], [CBS major or CSE major or grad MSB major]

**Credit will not be granted if credit has been received for:** GCD 4005W;

**Instructor:** Nakato, Hiroshi

**Description:** Please note: For students who are not biology majors, there is a new spring semester course - GCD 3033, Principles of Cell Biology. It will cover the same basic information taught in Biol 4004, but it does not have the biochemistry and genetics prerequisites required for Biol 4004. Biol 4004 Cell Biology: This course is part of a core curriculum required for graduation in a number of biological science majors in the College of Biological Sciences. The material covered is also applicable to basic studies in other areas of science and technology. The course provides an intense introduction to the fundamentals of cellular systems, focusing on dynamic cellular activities at the molecular level. Significant emphasis is placed on understanding the experimental basis of our current knowledge of cellular processes. In this respect, this course is well suited to those students planning for advanced study, including graduate and medical school. The material covered in this course builds directly upon material covered in the prerequisite courses of Biochemistry and Genetics. Students will learn to recognize and understand fundamental processes common to all types of cells as well as understanding those processes unique to specialized or differentiated cells. At the completion of the course, students should be familiar with the mechanisms by which cells replicate and transcribe and translate their genetic information, secrete proteins, assemble organelles and transport molecules to them, move, respond to signals and divide. Course material will be presented in a combined lecture and discussion format. Students are encouraged to actively participate in class discussions and to ask questions.

**Style:** 85% Lecture, 15% Discussion.

**Grading:** 86% mid exam, 14% written homework.

**Exam Format:** Short essay, problem-solving, multiple choice, diagrams

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**Biol 4121 Microbial Ecology and Applied Microbiology**

A-F only, 3 credit(s);

**Instructor:** Sadowsky, Michael Jay

**Description:** Evolution/structure of microbial communities. Abiotic and biotic factors influencing presence and persistence of microorganisms in ecosystems Population structure and interactions of populations and communities within ecosystems. Quantitative/habitat ecology. Biogeochemical cycling of elements and microbe-metal interactions. Molecular microbial ecology, gene transfer in the environment. Molecular phylogeny of microorganisms. Molecular technologies to examine structure and function of microbes in soils and water. Microbial genomics and metagenomics. Application of microbes in
agriculture and industries. Use of microbes for the production of commodity chemicals, drugs, and other high-value products.

Biol 4201 Teaching in the Biology Laboratory  
S-N only, 1 credit(s), max credits 2;  
Instructor: Scott, Cheryl L  
Description: Student may contact the instructor or department for information.

Biol 4342 Neuroscience  
A-F only, 3 credit(s);  
Instructor: Dunbar, Robert Lee  
Description: Student may contact the instructor or department for information.

Biol 4793W Directed Studies: Writing Intensive  
S-N only, 1-6 credit(s), max credits 36, 6 completions allowed; Meets CLE req of Writing Intensive  
Instructor: Wick, Susan M  
Description: Student may contact the instructor or department for information.

Biol 4794W Directed Research  
S-N only, 1-6 credit(s), max credits 36, 6 completions allowed; Meets CLE req of Writing Intensive  
Instructor: Wick, Susan M  
Description: Student may contact the instructor or department for information.

Biol 4961H Thesis Writing in the Biological Sciences: Conveying and Contextualizing Results  
A-F only, 1 credit(s);  
Instructor: Schiff, Leslie Ann  
Description: Student may contact the instructor or department for information.

Biol 5409 Evolution  
3 credit(s); 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: In the words of Theodosius Dobzhansky, "Nothing in Biology Makes Sense Except in the Light of Evolution." 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 for students to 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 (with active learning exercises) and weekly section meetings for labs, discussions, and computer simulation exercises. The course readings are drawn primarily from Freeman and Herron Evolutionary Analysis (4th edition, 2007). 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 5409 Evolution  
3 credit(s); One semester of college biology, grad student  
Credit will not be granted if credit has been received for: BIOL 3409;  
Instructor: May, Georgiana  
Description: In the words of Theodosius Dobzhansky, "Nothing in Biology Makes Sense Except in the Light of Evolution." 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 for students to 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 (with active learning exercises) and weekly section meetings for labs, discussions, and computer simulation exercises. The course readings are drawn primarily from Freeman and Herron Evolutionary Analysis (4th edition, 2007). 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 5950 Special Topics in Biology: Epigenetics  
A-F only, 1 credit(s), max credits 8;  
Instructor: Springer,Nathan Michael  
Description: Student may contact the instructor or department for information.

Biol 6793 Directed Studies  
1-7 credit(s), max credits 7, 7 completions allowed;  
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;  
Instructor: Fuchs,James A  
Description: Student may contact the instructor or department for information.

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

**Biology, Society, and Environment**

BSE 3001 An Introduction to Biology, Society, and Environment  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: The course has several objectives: 1) to provide all BSE majors with a core experience and a forum to introduce you to the faculty, from whom you may take classes during your academic career at the University of Minnesota, and their intellectual interests; 2) to introduce you to the various educational opportunities and services offered by the University Each week there will a presentation by a faculty member followed by a question and answer period that may focus, at least in part, on the questions posed the previous week and addressed in the presentation In addition, and occasionally, there will be a short presentation by a member of the educational community describing and promoting the educational services offered a the University and the varied educational opportunities  
Style: 100% Lecture.  
Grading: 100% reflection paper.

**Biomedical Engineering  7-105 Nils Hasselmo Hall**

BMEn 1602 Biomedical Engineering Undergraduate Seminar II  
A-F only, 1 credit(s);  
Instructor: Odde,David John  
Description: Student may contact the instructor or department for information.

BMEn 2101 Biomedical Thermodynamics  
A-F only, 3 credit(s);  
Instructor: Sachs,Jonathan Nathaniel  
Description: Student may contact the instructor or department for information.

BMEn 3111 Biomedical Transport Processes  
A-F only, 3 credit(s);  
Instructor: Wood,David K  
Description: Student may contact the instructor or department for information.

BMEn 3111 Biomedical Transport Processes  
A-F only, 3 credit(s);  
Instructor: Wood,David K  
Description: Student may contact the instructor or department for information.

BMEn 3115 Biomedical Transport Processes Lab  
A-F only, 1 credit(s);
Instructor: Wood, David K
Description: Student may contact the instructor or department for information.

BMEn 3311 Biomaterials
A-F only, 3 credit(s);
Instructor: Shen, Wei
Description: Student may contact the instructor or department for information.

BMEn 3311 Biomaterials
A-F only, 3 credit(s);
Instructor: Shen, Wei
Description: Student may contact the instructor or department for information.

BMEn 3315 Biomaterials Lab
A-F only, 1 credit(s);
Instructor: Shen, Wei
Description: Student may contact the instructor or department for information.

BMEn 3411 Biomedical Systems Analysis
A-F only, 3 credit(s);
Instructor: Netoff, Tay Ivan
Description: Student may contact the instructor or department for information.

BMEn 3411 Biomedical Systems Analysis
A-F only, 3 credit(s);
Instructor: Netoff, Tay Ivan
Description: Student may contact the instructor or department for information.

BMEn 3415 Biomedical Systems Analysis Lab
A-F only, 1 credit(s);
Instructor: Netoff, Tay Ivan
Description: Student may contact the instructor or department for information.

BMEn 3601 Biomedical Engineering Careers and Practice in the Med Tech Industry
A-F only, 1 credit(s);
Instructor: Kroll, Mark William
Description: Student may contact the instructor or department for information.

BMEn 4002W Biomedical Engineering Design II
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Ashkenazi, Shai
Description: This is the second course in a two-course series in design. The goal of this sequence is to develop design skills through the completion of a biomedical engineering design project. The objective of 4002 is to provide BME students with an opportunity to further refine design skills by building a physical prototype of the project developed during BMEn 4001, Fall Semester. The problem you have selected may not possess a unique solution. Your creativity, patience, and persistence will influence the results of your efforts. The emphasis of this course is on the process of design. The writing portion of the course will enhance technical communication skills. Successful designers utilize design processes that aid in making and documenting key decisions that ultimately produce better results. Your evaluation will be strongly influenced by your ability and the ability of your team to effectively demonstrate good design process. Style: 80% Small Group Activities, 5% Student Presentation, 15% Guest Speakers.
Grading: See syllabus for grading information.

BMEn 4710 Directed Research
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Akkin, Taner
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;
Instructor: Akkin, Taner
BMEn 4896 Industrial Assignment I: Co-op Program
A-F only, 2 credit(s);
Instructor: Akkin, Taner
Description: Student may contact the instructor or department for information.

BMEn 4996 Industrial Assignment II: Co-op Program
A-F only, 3 credit(s);
Instructor: Akkin, Taner
Description: Student may contact the instructor or department for information.

BMEn 5101 Advanced Bioelectricity and Instrumentation
3 credit(s);
Instructor: Talkachova, Alena
Description: This course focuses on the generation of biological electricity and its measurement, as well as therapeutic use of electricity to treat cardiac and neural problems. Specific areas of emphasis include generation of electric fields in biological tissues, ECG-based cardiac diagnosis, biosensors and electrodes, cardiac pacing/defibrillation. It is suitable for advanced undergraduate and graduate students.
Style: 65% Lecture, 20% Student Presentation, 15% Guest Speakers.
Grading: 45% mid exam, 40% written homework, 10% in-class presentation, 5% class participation.

BMEn 5111 Biomedical Ultrasound
3 credit(s);
Instructor: Ashkenazi, Shai
Description: This course is aimed to provide a gateway into the rich and versatile field of biomedical ultrasound. We will start from the basic physics of ultrasonic waves and their interaction with biological tissues, and then move to describe ultrasonic devices, imaging technology, and their applications in medicine and biology. New and emerging techniques in biomedical ultrasound will be introduced in the last part of the course. The major sections of the course include: Physics of ultrasound - Propagation in fluids and solids, reflection, scattering, absorption, ultrasonic properties of tissues. Transducer technology - Piezoelectric transducers, CMUTs ? Medical ultrasound imaging - Pulse echo, flow estimation and Doppler imaging, design of imaging transducer arrays, contrast agents. Photoacoustic imaging ? Laser generated ultrasound, Acoustic field of volume sources, photoacoustic image reconstruction, tissue optical properties, diffusion model for tissue optics, photoacoustic contrast agents. Applications of non-linear acoustic: Basic concepts of non-linear waves, harmonic imaging, and radiation force imaging.
Style: 100% Lecture.
Grading: 20% mid exam, 20% final exam, 20% quizzes, 40% written homework.

BMEn 5151 Introduction to BioMEMS and Medical Microdevices
A-F only, 2 credit(s);
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). (EE students should note the the exam times under Syllabus/Schedule on the course website, and be sure these are compatible with your other courses. It is recommended that you not take the LSI course and this course together.)
Style: 70% Lecture, 10% Discussion, 15% Student Presentation. 5% Tour of the Nanofabrication Center and Characterization Facility
Grading: 40% mid exam, 40% final exam, 10% in-class presentation, 10% class participation.
Exam Format: Essay

BMEn 5311 Advanced Biomedical Transport Processes
3-4 credit(s), max credits 4, 1 completion allowed; CSE 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: Odde, David John
Description: This course focuses primarily on biological fluid flows and electrochemical transport. The three major sections of the course are 1. Scaling of vascular flows (Barocas) 2. Mass transport in organs, tissues, and cells (Odde) 3. Volume averaging and interstitial flows (Barocas) The last section 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 5412 Neuromodulation
A-F only, 3 credit(s);
Instructor: Johnson, Matthew Douglas
Description: Fundamentals of bioengineering approaches to modulate the nervous system including bioelectricity, biomagnetism, and optogenetics. Topics include design of neuromodulation devices, development of multi-scale computational models of neuromodulation, and implementation of technologies to evaluate the physiological effects of neuromodulation. Clinical exposure to managing neurological diseases and disorders with neuromodulation technology will be emphasized.
Style: This course consists of two 75-minute sessions per week. Course material is divided into two-week modules each with clinical applications, in-class demonstrations, and a practicum.
Grading: 25% mid exam, 25% final exam, 40% written homework, 10% class participation.
Exam Format: Take-home final exam

BMEn 5413 Neural Decoding and Interfacing
A-F only, 3 credit(s);
Instructor: Lim, Hubert Hyungil
Description: To provide an overview of the different types of neural interface technologies currently in use in patients as well as coverage of the biophysics, neural coding, and hardware features relating to their implementation in humans. The course will primarily focus on invasive neural implants that electrically interface with the peripheral or central nervous system. Neurophysiological principles and computational modeling of neurons, current flow through tissue, and the tissue-electrode interface will be covered to understand how electrical signals and information are transmitted between the device and neurons. Practical and ethical considerations for implanting these devices into humans are also presented. A final group project will be required for simulating a neural implant system.
Style: 80% Lecture, 10% Small Group Activities, 10% Student Presentation.
Grading: 30% special projects, 30% quizzes, 30% written homework, 10% class participation. All quizzes, homeworks, and final project must be completed and turned in on the designated dates. Only under severe circumstances (e.g., death in family, severe health condition) will a make-up opportunity be provided.
Exam Format: Quizzes will be open notes and book, and calculator will be allowed.

BMEn 5421 Introduction to Biomedical Optics
A-F only, 3 credit(s);
Instructor: Akkin, Taner
Description: The objective is to develop knowledge in the area of biomedical optical imaging and sensing. Topics include optical principles, laser-tissue interaction, detector design and noise analysis, interferometry, and spectroscopy. Methods will range from the simple Beer’s Law to the Monte Carlo modeling of light transport in scattering tissue, and from the basic Michelson interferometer to the state-of-the-art noninvasive optical coherence tomography of tissue. Polarization, birefringence, flow measurement, fluorescence and nonlinear microscopy will be introduced. Students will get opportunities to visit various laboratories on campus to see optical instruments being developed for biomedical imaging and sensing applications.
Style: 80% Lecture, 5% Student Presentation, 5% Demonstration, 10% Guest Speakers.
Grading: 50% mid exam, 25% special projects, 25% written homework. 2 exams, each worth 25%.
Exam Format: in-class exam (March), and one take-home exam (April).

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

BMEn 8201 Advanced Tissue Mechanics
A-F only, 3 credit(s);
Instructor: Alford, Patrick William
Description: Tissues exist in dynamic mechanical environments where they must maintain a fine balance between applied
loads and internal tension. Active adaptability of biological materials can significantly complicate measurement of their mechanical behavior. This course will cover fundamental continuum approaches for determining the complex stress states of actively responsive tissues as well as the force-feedback relationships that drive early development and allow mature tissues to maintain mechanical equilibrium. Topics will include theoretical approaches for Active force generation, Soft tissue finite growth, Extracellular matrix remodeling, and Constrained mixtures. These methods are applicable to a wide range of biomechanical systems. In this course, they will be applied to mechanics of two model systems: arterial growth and remodeling in hypertension and sheet folding in early organogenesis and morphogenesis.

**Style:** 80% Lecture, 20% Discussion.
**Grading:** 30% mid exam, 30% final exam, 30% special projects, 10% written homework.
**Exam Format:** Short answer and problems.

**BMEn 8335 Neuroengineering Practicum**
- A-F only, 3 credit(s), max credits 6;
- **Instructor:** He, Bin
- **Description:** Student may contact the instructor or department for information.

**BMEn 8381 Bioheat and Mass Transfer**
- 3 credit(s);
- **Instructor:** Bischof, John C
- **Description:** Student may contact the instructor or department for information.

**BMEn 8402 New Product Design and Business Development**
- A-F only, 4 credit(s); = ME 8222; 8401 Credit will not be granted if credit has been received for: ME 8222;
- **Instructor:** Durfee, William K
- **Description:** See web site for course description.

**BMEn 8431 Controlled Drug and Gene Delivery: Materials, Mechanisms, and Models**
- A-F only, 4 credit(s); Differential equations course including partial differential equations or instr consent Credit will not be granted if credit has been received for: PHM 8431;
- **Instructor:** Siegel, Ronald Alan
- **Description:** This course is concerned with the physical, chemical, physiological, cell biological, and mathematical principles underlying the design of delivery systems for drugs, including small molecules, proteins, and genes, with some emphasis on temporal controlled release.
- **Style:** 90% Lecture, 5% Student Presentation, 5% Guest Speakers.
- **Grading:** 40% reports/papers, 10% in-class presentation, 50% problem solving.

**BMEn 8602 Biomedical Engineering Seminar**
- S-N only, 1 credit(s);
- **Instructor:** Sachs, Jonathan Nathaniel
- **Description:** Student may contact the instructor or department for information.

**BMEn 8710 Directed Research**
- 1-3 credit(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, 1-3 credit(s), max credits 6;
- **Instructor:** Barocas, Victor Howard
- **Description:** Student may contact the instructor or department for information.

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

**BMEn 8900 Special Topics in Biomedical Engineering: Tissue Engineering Lab**
- A-F only, 3 credit(s), max credits 8;
- **Instructor:** Ogle, Brenda Marie
- **Description:** Student may contact the instructor or department for information.
BMEn 8900 Special Topics in Biomedical Engineering: Biophotonics
A-F only, 3 credit(s), max credits 8;
Instructor: Provenzano, Paolo
Description: Student may contact the instructor or department for information.

BMEn 8900 Special Topics in Biomedical Engineering: Systems and Synthetic Biology
A-F only, 3 credit(s), max credits 8;
Instructor: Sarkar, Casim
Description: Student may contact the instructor or department for information.

BMEn 8910 Independent Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Barocas, Victor Howard
Description: Student may contact the instructor or department for information.

Biomedical Informatics and Computational Biology  BICB Graduate Program

BICB 8510 Computation and Biology
A-F only, 2 credit(s), max credits 4;
Instructor: Van Riper, Susan Kaye
Description: Student may contact the instructor or department for information.

BICB 8920 BICB Colloquium
S-N only, 1 credit(s), max credits 2;
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;
Instructor: Van Riper, Susan Kaye
Description: Student may contact the instructor or department for information.

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

BICB 8970 Entrepreneurship and Leadership Seminar
S-N only, 1 credit(s);
Instructor: Hall PhD, Linda Jean
Description: Student may contact the instructor or department for information.

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

Bioproducts and Biosystems Engineering  203 Kaufert Lab

BBE 1002 Biorenewable Resources
A-F only, 3 credit(s); Meets CLE req of Technology and Society
Instructor: STAFF
Description: Develop an understanding of Biorenewable Resources, using wood and agriculture-based biomass for making various renewable, bio-based products. Environmental, technological, social, and economic implications of the use of these resources.

BBE 2201 Renewable Energy and the Environment
3 credit(s); Meets CLE req of Technology and Society
Instructor: Schmidt, David Roger
Description: Course Description: As a CLA technology and society elective, this 3 credit online course offered by the Bioproducts and Biosystems Department is designed to educate the student about the current energy climate and its environmental impact. BBE 2201 provides a broad overview and understanding of the energy needs and demands, various renewable energy technologies and their economic, environmental and societal implications. This is course designed specifically for students with ALL backgrounds and majors. Much of the material and content is scientific but our goal is to present it in a style which anyone can understand. Course Objectives: Make better consumers and citizens by increasing awareness and knowledge of energy and the relationship of energy to the environment as well as providing students with a working knowledge of the resources available on energy and energy resources. Course Delivery: Course will include approx. 30 online lessons. Most lessons will include a topic introduction by the instructor, a recorded video lecture by a topic expert (either a UMN faculty member, or industry representative), additional reading materials, a quiz based on the lesson materials, and other lesson specific assignments. Check the public url site bbe2201.cfans.umn.edu to get more information on the course or click on the course syllabus.
Style: Class is completely online and asynchronous. From past student, "This class is just an elective, but it's by far my favorite class of the semester. It's so interesting and fun to "go to class to". Great set up!"
Grading: 10% final exam, 10% reports/papers, 10% special projects, 35% quizzes, 35% reflection paper. Workload is reasonable according to student surveys.

Exam Format: All online.

BBE 3043 Biological and Environmental Thermodynamics
A-F only, 3 credit(s);
Instructor: Wilson, Bruce Nord
Description: Basic concepts of thermodynamics are developed and applied to understand energy transformation in biological and environmental sciences. Topics include equilibrium states; first principle of thermodynamics; radiation heat transfer, enthalpies of gases, phase transitions, and chemical reactions; classical and statistical definition of entropy, Gibbs energy; and chemical potentials. Concepts are used to understand the dynamics of plant transpiration, stable and unstable atmospheric temperature gradients, atmospheric gases and climate change, and plant photosynthesis.
Style: 90% Lecture, 10% Demonstration.
Grading: 35% final exam, 30% additional semester exams, 35% problem solving.

BBE 3093 Directed Studies
1-5 credit(s), max credits 5, 1 completion allowed;
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 3201 Sustainability of Food Systems: A Life Cycle Perspective
A-F only, 3 credit(s); Meets CLE req of Global Perspectives
Instructor: Mu, Dongyan
Description: Hamburger or hummus? Conventional or organic? McDonald's or Mediterranean diet? What dietary choices are the most sustainable recognizing that what we eat affects not only our health but also the environment and the wellbeing of those involved in food production? Feeding a world population that in the coming decades will grow in both numbers and in wealth will require that we greatly increase the amount of food we produce and be better informed of its impacts. This course examines the consequences of the global food system from a life cycle perspective. Students will explore the diversity of both the foods we eat and the means by which we grow, process, distribute, and prepare them. Students will be asked to investigate and debate current topics and controversies in food sustainability, focusing on inherent complexity and trade-offs in various dietary options and the means of producing them. Case studies, readings, and discussion topics will be chosen to emphasize that responsible decisions concerning what we eat can only be made when we consider entire food supply chains and their full set of economic, environmental, and social consequences.

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

BBE 3396 Industry Assignment
A-F only, 1 credit(s);
Instructor: STAFF
Description: Industrial work assignment in program related to cooperative education. Evaluation based on formal report written by student at end of each semester of work assignment.
**BBE 4013 Transport in Biological Processes II**
A-F only, 3 credit(s);
Instructor: Nieber, John Little
Description: The course involves the application of the principles of thermodynamics, fluid flow, heat transfer and mass transfer to solving of problems involving biological processes and biomaterials at the cellular, organism and system level. Application problems include those related to analysis of biological systems, agricultural production, food processing and bioprocessing, biomaterials design, environmental protection, and natural resources management. After completion students should be able to: 1) Derive constitutive relationships for fluid flow, energy and mass transport in biological systems; 2) Formulate equilibrium thermodynamic relationships for states of thermal energy and mass in biological systems; 3) Formulate the governing equations for fluid flow, energy and mass transport in biological systems; 4) Recognize analytical solutions to well-posed mathematical statements related to fluid flow, and energy and mass transport in biological systems; 5) Understand the fundamentals and applications of discrete methods such as finite differences for solving well-posed mathematical statements related to fluid flow, and energy and mass transport in biological systems; 6) Solve practical problems involving fluid flow, energy and mass transport in biological systems. Fundamentals presented in the lectures and textbook are balanced with practical applications. In addition to homework assignments and exams, students develop designs for two practical problems.
Style: 75% Lecture. 25% Problem Solving
Grading: 20% mid exam, 20% final exam, 30% special projects, 10% laboratory evaluation, 20% problem solving.
Exam Format: Problem solving

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

**BBE 4302 Biodegradation of Bioproducts**
3 credit(s); 1002 or instr consent Credit will not be granted if credit has been received for: BBE 5302;
Instructor: Tze, William Tai Yin
Description: Student may contact the instructor or department for information.

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

**BBE 4305 Pulp and Paper Technology**
3 credit(s);
Instructor: Tschirner, Ulrike Waltrau
Description: Student may contact the instructor or department for information.

**BBE 4333 Off-road Vehicle Design**
A-F only, 4 credit(s); [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 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, snow
BBE 4402 Bio-based Products Engineering Lab I
4 credit(s);CHEM 2301, [jr or sr or instr consent ]Credit will not be granted if credit has been received for: BBE 5402;
Instructor: Tschirner,Ulrike Waltrau
Description: Student may contact the instructor or department for information.

BBE 4412W Biocomposites and Biomass Energy
4 credit(s);1002, upper div BPCredit 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.

BBE 4413 Systems Approach to Residential Construction
4 credit(s);Upper div or instr consent Credit will not be granted if credit has been received for: BBE 5413;
Instructor: Janni,Kevin A
Description: For students interested in the science of how houses work and how green buildings are planned, assembled and maintained. This course begins with a presentation of the construction process, from the foundation up to the roof. We then discuss the building science related to the systems approach to residential buildings. Finally, the course addresses the key components of high performance houses: energy efficiency, durability, comfort and indoor air quality. A fundamental principal for this class is that green, sustainable houses are designed and built in accordance with the science and technology inherent to the systems approach, which emphasizes the interrelatedness of all of the building components and appliances.

BBE 4416 Building Testing and Diagnostics
2 credit(s);4413Credit will not be granted if credit has been received for: BBE 5416;
Instructor: Seavey,Robert Thomas
Description: For students and industry professionals interested in the technology, procedures and science behind building diagnostics. This course is divided between presentations from industry experts in building diagnostics, laboratory exercises related to component testing and evaluation and finally extensive fieldwork evaluations of houses. The key issues for this class include: building tightness and ventilation, as well as, mechanical systems diagnostics. The lessons from this class are helpful in addressing the key components to building a high-performance houses and to be able to make successful energy saving retrofits of existing structures.

BBE 4416 Building Testing and Diagnostics
2 credit(s);4413Credit will not be granted if credit has been received for: BBE 5416;
Instructor: Seavey,Robert Thomas
BBE 4491 Senior Topics: Independent Study  
1-4 credit(s), max credits 4, 1 completion allowed;  
Instructor: STAFF  
Description: Independent study in an area of interest to an undergraduate majoring in one of the fields within the College of Food, Agricultural and Natural Resource Sciences.

BBE 4502W BBE Capstone Design  
A-F only, 4 credit(s); Meets CLE req of Writing Intensive  
Instructor: Wilson,Bruce Nord  
Description: Student may contact the instructor or department for information.

BBE 4523 Ecological Engineering Design  
A-F only, 3 credit(s); [CHEM 1022 or [CHEM 1062, CHEM 1066], 3012, upper div CSE] or instr consent Credit will not be granted if credit has been received for: BBE 5523;  
Instructor: Eshenaur,Walter Clair  
Description: Student may contact the instructor or department for information.

BBE 4533 Sustainable Waste Management Engineering  
A-F only, 3 credit(s);  
Instructor: Clanton,Chuck  
Description: Sources and characteristics of agricultural wastes including livestock, food processing, and domestic wastes. Physical, biological, chemical, rheological and microbiological properties. Effects on the environment. Collection, storage, treatment (aerobic and anaerobic) and utilization/disposal. Land application. Course objectives/outcomes: This course is designed for senior level students in engineering to provide fundamentals in agricultural waste management and the concepts involved for design of waste management systems that are environmentally sound.  
Style: 55% Lecture, 15% Discussion, 30% Laboratory.  
Grading: 40% final exam, 10% reports/papers, 30% quizzes, 5% in-class presentation, 10% laboratory evaluation, 5% problem solving.  
Exam Format: Short answer and problems

BBE 4713 Biological Process Engineering  
A-F only, 3 credit(s); [3033, [4013 or Concurrent registration is required (or allowed) in 4013], upper div CSE] or instr consent Credit will not be granted if credit has been received for: BBE 5713;  
Instructor: Wang,Ping  
Description: Principles of bioprocess engineering including material balance, energy balance, homogeneous reactions, fermentation and reactors, and unit operations such as filtration, centrifugation, separation, absorption, extraction, and chromatography will be covered. Applications of these bioprocess engineering principles in various biological systems, biorefining, and conversion of biomass into energy, biochemicals, and biomaterials will also be discussed.  
Style: 80% Lecture, 20% Discussion.  
Grading: 30% mid exam, 25% final exam, 15% reports/papers, 30% problem solving.  
Exam Format: Multiple choice, short problems

BBE 4723 Food Process Engineering  
A-F only, 3 credit(s); [[4013 or Concurrent registration is required (or allowed) in 4013], upper div CSE] 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: 33% mid exam, 34% final exam, 33% problem solving.  
Exam Format: Open book/open notes/take-home exam

BBE 4733 Renewable Energy Technologies  
A-F only, 3 credit(s); Junior or senior Credit will not be granted if credit has been received for: BBE 5733; Meets CLE req of Technology and Society  
Instructor: Ruan PhD,R. Roger
Description: This course provides fundamentals to the current and emerging technologies for renewable energy production and uses. Issues regarding national energy security and environmental, economic and societal impacts of renewable energy will also be addressed. Students will learn the basic principals of various renewable energy technologies, such as solar thermal energy, solar photovoltaics, biomass energy, wind energy, hydroelectricity, tidal power, and geothermal energy, an understanding of basic characteristics of renewable resources, key methods for efficient production and use of renewable energy, an understanding of current and probable future developments in renewable energy technologies, impact of renewable energy on sustainable development.

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

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

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

BBE 4802H Honors Research
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

BBE 4900 Intern Reports
S-N only, 2 credit(s), max credits 4;
Instructor: Janni,Kevin A
Description: Student may contact the instructor or department for information.

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

BBE 5302 Biodegradation of Bioproducts
3 credit(s);Grad student or instr consent Credit will not be granted if credit has been received for: BBE 4302;
Instructor: Tze,William Tai Yin
Description: Student may contact the instructor or department for information.

BBE 5303 Introduction to Bio-based Materials Science
3 credit(s);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 5305 Pulp and Paper Technology
3 credit(s);
Instructor: Tschirner,Ulrike Waltrau
Description: Student may contact the instructor or department for information.

BBE 5333 Off-road Vehicle Design
A-F only, 4 credit(s);[2001, 4303] or [AEM 2021, AEM 3031], [3012 or Concurrent registration is required (or allowed) in 3012 or CE 3502 or Concurrent registration is required (or allowed) in CE 3502], upper div CSE] 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 many others. 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-F only, 1 credit(s);Grad student or instr consent Credit will not be granted if credit has been received for: BBE 4402;
Instructor: Tschirner,Ulrike Waltrau
BBE 5412 Biocomposites and Biomass Energy
4 credit(s); credit will not be granted if credit already received for: BP4412/BP 5412 Credit will not be granted if credit has been received for: BBE 4412W;
Instructor: Seavey, Robert Thomas
Description: BBE 4412W Manufacturing and Applications of Bio-based Products II 3 Credits; Spring Semester 2008 9:35 - 11:30; Tu and Th
Style: 50% Lecture, 25% Laboratory, 25% Field Trips.
Grading: 30% mid exam, 20% final exam, 40% reports/papers, 10% other evaluation.

BBE 5413 A Systems Approach to Residential Construction
4 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: BBE 4413;
Instructor: Janni, Kevin A
Description: For students interested in the science of how houses work and how green buildings are planned, assembled and maintained. This course begins with a presentation of the construction process, from the foundation up to the roof. We then discuss the building science related to the systems approach to residential buildings. Finally, the course addresses the key components of high performance houses: energy efficiency, durability, comfort and indoor air quality. A fundamental principal for this class is that green, sustainable houses are designed and built in accordance with the science and technology inherent to the systems approach, which emphasizes the interrelatedness of all of the building components and appliances.

BBE 5416 Building Testing & Diagnostics
2 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: BBE 4416;
Instructor: Seavey, Robert Thomas
Description: For students and industry professionals interested in the technology, procedures and science behind building diagnostics. This course is divided between presentations from industry experts in building diagnostics, laboratory exercises related to component testing and evaluation and finally extensive fieldwork evaluations of houses. The key issues for this class include: building tightness and ventilation, as well as, mechanical systems diagnostics. The lessons from this class are helpful in addressing the key components to building a high-performance houses and to be able to make successful energy saving retrofits of existing structures.

BBE 5416 Building Testing & Diagnostics
2 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: BBE 4416;
Instructor: Seavey, Robert Thomas
Description: For students and industry professionals interested in the technology, procedures and science behind building diagnostics. This course is divided between presentations from industry experts in building diagnostics, laboratory exercises related to component testing and evaluation and finally extensive fieldwork evaluations of houses. The key issues for this class include: building tightness and ventilation, as well as, mechanical systems diagnostics. The lessons from this class are helpful in addressing the key components to building a high-performance houses and to be able to make successful energy saving retrofits of existing structures.
BBE 5523 Ecological Engineering Design
A-F only, 3 credit(s); [CHEM 1022 or CHEM 1062, CHEM 1066], BBE 3012, grad student] or instr consent Credit will not be granted if credit has been received for: BBE 4523;
Instructor: Eshenaur, Walter Clair
Description: Student may contact the instructor or department for information.

BBE 5713 Biological Process Engineering
A-F only, 3 credit(s); [CHEM 1022 or CHEM 1062, CHEM 1066], BBE 3012, grad student] or instr consent Credit will not be granted if credit has been received for: BBE 4713;
Instructor: Wang, Ping
Description: Student may contact the instructor or department for information.

BBE 5723 Food Process Engineering
A-F only, 3 credit(s); [CHEM 1022 or CHEM 1062, CHEM 1066], BBE 3012, grad student] or instr consent Credit will not be granted if credit has been received for: BBE 4723;
Instructor: Ruan PhD, R. Roger
Description: Student may contact the instructor or department for information.

BBE 5733 Renewable Energy Technologies
A-F only, 3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: BBE 4733;
Instructor: Ruan PhD, R. Roger
Description: Student may contact the instructor or department for information.

BBE 8002 Seminar II
A-F only, 1 credit(s), max credits 2;
Instructor: Sarkanen, 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;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Business Administration 2-190 Hanson Hall

BA 3000 Career Skills
S-N only, 1 credit(s);
Instructor: STAFF
Description: The focus of this course is to increase your awareness, knowledge and skills associated with the career and job search process. The course includes career discovery, but is mainly focused on the tactical pieces of a job search. You will be exposed to a variety of individuals who will give you different perspectives on the process, such as recruiters from local organizations and students who have completed an internship. You will learn to write a professional resume and cover letter, complete behavior-based interviews, research companies and positions, conduct an informational interview, and use the Undergraduate Business Career Center and The Edge. This development will increase your ability to undertake a successful career and job search now and in the future.
Style: 35% Lecture, 50% Discussion. guest speakers
Grading: 90% reports/papers, 10% class participation.

BA 3999 Internship Seminar
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Zhang, Xiaoji
Description: BA 3999 is a one-credit independent study course for students that want/need to gain a credit with an internship. You can take it during your internship or the semester right after it is over. It consists of a meeting with the instructor during the semester and several short assignments designed to help you with the next phase of your career development. If you would like to take the class, please fill out the attached form, have your supervisor (and yourself) sign it, and turn it in at UBCC. You will then receive permission to register. International students need to go to ISSS to get CPT paperwork before registering for the class.

BA 4501 Carlson Funds Enterprise: Growth
BA 4502 Carlson Funds Enterprise: Fixed Income
OPT No Aud, 3 credit(s), max credits 6;
Instructor: Goldstein, Robert S
Description: Student may contact the instructor or department for information.

BA 4503 Carlson Ventures Enterprise
OPT No Aud, 2 credit(s), max credits 6, 3 completions allowed;
Instructor: Nord, Tobin Lawrence
Description: Student may contact the instructor or department for information.

BA 4504 Carlson Consulting Enterprise
OPT No Aud, 3 credit(s), max credits 6;
Instructor: Gisser, Sarah Smith
Description: Student may contact the instructor or department for information.

BA 4505 Brand Enterprise
OPT No Aud, 3 credit(s), max credits 6;
Instructor: Hopkins, David K
Description: Student may contact the instructor or department for information.

BA 4990H Honors Thesis Seminar I
A-F only, 2 credit(s);
Instructor: Manchester, Colleen Flaherty
Description: Student may contact the instructor or department for information.

BA 4991H Honors Thesis Seminar II
A-F only, 2 credit(s);
Instructor: Koeneman, Brian Carl
Description: This course builds from the foundational course (BE 4990H) on how to conduct independent research and focuses on evaluating your methodology, obtaining results, and reconciling your findings with the research questions and hypotheses posed. In this course you will update your literature review, refine your analytical methodology, arrive at your initial results, and develop an understanding of these results. Individual interactions with the instructor and feedback from peers will be used to refine your analysis and writing. Students will be challenged to communicate how their research informs the past literature, to identify limitations of their analysis, and to consider the implications of their study for future research. The outcome of this course is a complete draft of your honors thesis, which can then be revised with feedback and submitted to your supervisor (and readers if applicable). Concurrent communication with your supervisor and readers is expected.

BA 4994H Directed Research
A-F only, 1-4 credit(s), max credits 4;
Instructor: Manchester, Colleen Flaherty
Description: Student may contact the instructor or department for information.

Business Law 3-110 Carlson School of Management

BLaw 3058 The Law of Contracts and Agency
A-F only, 4 credit(s);
Instructor: Kramer, Jack
Description: Student may contact the instructor or department for information.

Center for Learning Innovation

CLI 1196 National Student Exchange: Plan A
S-N only, 0 credit(s), 3 completions allowed;
Instructor: Schieve, Brett Edwin
CLI 1296 National Student Exchange: Plan B
S-N only, 0 credit(s), 3 completions allowed;
Instructor: Schieve, Brett Edwin
Description: Student may contact the instructor or department for information.

CLI 1393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Dunbar, Robert Lee
Description: Student may contact the instructor or department for information.

CLI 1393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Wacek, Jennifer A
Description: Student may contact the instructor or department for information.

CLI 1393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Metzger, Kelsey Jean
Description: Student may contact the instructor or department for information.

CLI 1393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Bright, Jered Bryan
Description: Student may contact the instructor or department for information.

CLI 1712 University Experience II
S-N only, 1 credit(s);
Instructor: Ribikawskis, Anna M
Description: Student may contact the instructor or department for information.

CLI 1712 University Experience II
S-N only, 1 credit(s);
Instructor: Hooke, Jennifer
Description: Student may contact the instructor or department for information.

CLI 1712 University Experience II
S-N only, 1 credit(s);
Instructor: Menze, Dauline M
Description: Student may contact the instructor or department for information.

CLI 1712 University Experience II
S-N only, 1 credit(s);
Instructor: Eiden, Steph
Description: Student may contact the instructor or department for information.

CLI 1712 University Experience II
S-N only, 1 credit(s);
Instructor: Taylor, Marquis Demetrius
Description: Student may contact the instructor or department for information.

CLI 2522 Community Collaboratory
A-F only, 3 credit(s);
Instructor: Henderson Vazquez, Teresa A
Description: Student may contact the instructor or department for information.

CLI 2712 Career Exploration II
S-N only, 1 credit(s);
Instructor: Casper, Jenny
Description: Student may contact the instructor or department for information.

CLI 2712 Career Exploration II
S-N only, 1 credit(s);
Instructor: Grossell, Teresa Lynn
Description: Student may contact the instructor or department for information.

CLI 2712 Career Exploration II
S-N only, 1 credit(s);
Instructor: Sancomb-Moran, Mary Beth
Description: Student may contact the instructor or department for information.

CLI 2712 Career Exploration II
S-N only, 1 credit(s);
Instructor: Walker, Laura
Description: Student may contact the instructor or department for information.

CLI 3393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Dunbar, Robert Lee
Description: Student may contact the instructor or department for information.

CLI 3393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Taniguchi, Yuko
Description: Student may contact the instructor or department for information.

CLI 3393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Hegland, Jennifer Jean
Description: Student may contact the instructor or department for information.

CLI 3393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Petzold, Andy M
Description: Student may contact the instructor or department for information.

CLI 3393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Prat-Resina, Xavier
Description: Student may contact the instructor or department for information.

CLI 3393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Dingel, Molly J.
Description: Student may contact the instructor or department for information.

CLI 3393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Walia, Rajeev
Description: Student may contact the instructor or department for information.

CLI 3393 Directed Study
1-3 credit(s), max credits 6;
Instructor: Norris, Adele Natasha
Description: Student may contact the instructor or department for information.

CLI 3394 Directed Research
1-6 credit(s), max credits 6, 4 completions allowed;  
Instructor: Dunbar, Robert Lee  
Description: Student may contact the instructor or department for information.

CLI 3394 Directed Research  
1-6 credit(s), max credits 6, 4 completions allowed;  
Instructor: Metzger, Kelsey Jean  
Description: Student may contact the instructor or department for information.

CLI 3394 Directed Research  
1-6 credit(s), max credits 6, 4 completions allowed;  
Instructor: Petzold, Andy M  
Description: Student may contact the instructor or department for information.

CLI 3394 Directed Research  
1-6 credit(s), max credits 6, 4 completions allowed;  
Instructor: Prat-Resina, Xavier  
Description: Student may contact the instructor or department for information.

CLI 3394 Directed Research  
1-6 credit(s), max credits 6, 4 completions allowed;  
Instructor: Bright, Jered Bryan  
Description: Student may contact the instructor or department for information.

CLI 3394 Directed Research  
1-6 credit(s), max credits 6, 4 completions allowed;  
Instructor: Muthyala, Rajeev S.  
Description: Student may contact the instructor or department for information.

CLI 3496 Internship: Professional Experience  
S-N only, 1-6 credit(s), max credits 6, 1 completion allowed;  
Instructor: Taniguchi, Yuko  
Description: Student may contact the instructor or department for information.

CLI 3711 Career Preparation: Living on Purpose  
S-N only, 1 credit(s), max credits 4, 4 completions allowed;  
Instructor: Hegland, Jennifer Jean  
Description: Student may contact the instructor or department for information.

CLI 3711 Career Preparation: Perspectives on Genetically Modified Organisms  
S-N only, 1 credit(s), max credits 4, 4 completions allowed;  
Instructor: Petzold, Andy M  
Description: Student may contact the instructor or department for information.

CLI 3711 Career Preparation: Public Presentation Skills and Strategies  
S-N only, 1 credit(s), max credits 4, 4 completions allowed;  
Instructor: Bruenger, Aaron Michael  
Description: Student may contact the instructor or department for information.

CLI 3712 Capstone Proposal Writing  
S-N only, 1 credit(s);  
Instructor: Taniguchi, Yuko  
Description: Student may contact the instructor or department for information.

CLI 4393 Capstone Directed Study  
S-N only, 1-3 credit(s), max credits 6;  
Instructor: Brewer, Cameron David  
Description: Student may contact the instructor or department for information.
CLI 4393 Capstone Directed Study
S-N only, 1-3 credit(s), max credits 6;
Instructor: Kostko, Aaron Thomas
Description: Student may contact the instructor or department for information.

CLI 4496 Capstone Internship
S-N only, 1-12 credit(s), max credits 36, 3 completions allowed;
Instructor: Taniguchi, Yuko
Description: Student may contact the instructor or department for information.

CLI 4696 Capstone Research Experience
S-N only, 1-12 credit(s), max credits 24, 3 completions allowed;
Instructor: Sage PhD, Starr Kelly
Description: Student may contact the instructor or department for information.

CLI 4696 Capstone Research Experience
S-N only, 1-12 credit(s), max credits 24, 3 completions allowed;
Instructor: Dunbar, Robert Lee
Description: Student may contact the instructor or department for information.

CLI 4696 Capstone Research Experience
S-N only, 1-12 credit(s), max credits 24, 3 completions allowed;
Instructor: Taniguchi, Yuko
Description: Student may contact the instructor or department for information.

CLI 4696 Capstone Research Experience
S-N only, 1-12 credit(s), max credits 24, 3 completions allowed;
Instructor: Metzger, Kelsey Jean
Description: Student may contact the instructor or department for information.

CLI 4696 Capstone Research Experience
S-N only, 1-12 credit(s), max credits 24, 3 completions allowed;
Instructor: Dingel, Molly J.
Description: Student may contact the instructor or department for information.

CLI 4711 Capstone Reflections I
S-N only, 1 credit(s);
Instructor: Taniguchi, Yuko
Description: Student may contact the instructor or department for information.

CLI 4712 Capstone Reflections II
S-N only, 1 credit(s);
Instructor: Taniguchi, Yuko
Description: Student may contact the instructor or department for information.

CLI 4713 Capstone Reflections I and II
S-N only, 2 credit(s);
Instructor: Taniguchi, Yuko
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 with 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 practices into daily personal life. Students will reflect on the application of the
principles to their daily lives; a key component of class is to become more mindful and "present" in our daily lives and then to understand how we can apply this to be more balanced as students in US society. All students will complete an assignment each week to reflect on the topic.

**Style:** 100% Web Based.

**Grading:** 67% written homework, 33% reflection paper. Students will read or watch a video and reflect on the significance of the material.

**Exam Format:** No exams

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**CSpH 3000 Topics in Integrative Health: Living on Purpose: Explore Self, Purpose, Comm**

2 credit(s), max credits 16, 4 completions allowed;

**Instructor:** Broad, Carole Anne

**Description:** Exploring our purpose in life means asking and answering the essential question, "What makes me want to get out of bed in the morning?" Purpose is that deepest belief within us where we have a strong sense of who we are, where we came from, and where we're going. It is the ability to know yourself, know what you know, reflect upon it, and base your judgments, choices and actions on it. Living on Purpose is a course designed to help students explore questions of meaning and purpose in college and in their lives. In this class community, students will examine the context and meaning of their own lives, explore other peoples' ways of living on purpose, and consider the big questions that shape their present and future. Through in-person retreats, readings, reflections, experiential exercises, and assignments, the course will offer students time to define their own purpose at this time in their lives and to help build a framework to lead a purposeful life now and into the future. Primarily Online Course with 2 in-person meetings. Prerequisite sophomore, junior or senior with 30+ completed credits (or instructor consent)

**Style:** 10% Lecture, 90% Web Based. All assignments and readings/viewings are accessed via the Moodle course site.

**Grading:** 15% Assignments, 10% Weekly Quizzes, 20% Weekly Online Discussion, 10% Interview assignment, 15% Group Project, 20% Capstone (Digital Narrative or Reflection Paper)

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**CSpH 3000 Topics in Integrative Health: Hatha Yoga Teaching Principles & Methodology**

0 credit(s), max credits 16, 4 completions allowed;

**Instructor:** Schuver, Katie Jo

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

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**CSpH 3000 Topics in Integrative Health: Hatha Yoga Philosophy, Lifestyle, & Ethics**

0 credit(s), max credits 16, 4 completions allowed;

**Instructor:** Schuver, Katie Jo

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

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**CSpH 3001 Introduction to Integrative Healing**

3 credit(s);

**Instructor:** Brady, Linda J

**Description:** This course provides an overview of the current US health care system and US cultural views of health and wellness. Within this context, it then provides students with an overview of various complementary and alternative medical systems and practices that might be integrated into the current way of thinking about health and wellness and treatment of illness/disease. Examples include: whole systems of thinking about health such as traditional Chinese medicine or Native American healing, manual therapies like chiropractic, energy therapies like reiki and qigong, mind body therapies like yoga and meditation, biologically based therapies like botanicals and aromatherapy.

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**CSpH 3101 Creating Ecosystems of Well-Being**

2 credit(s);

**Instructor:** Hathaway, Kate M

**Description:** This course focuses on information, practices, and tools that enable individuals and communities to build capacity for wellbeing. Students will examine factors and ecosystems that contribute to health happiness and wellbeing, develop a personal plan for health and wellbeing, and participate in a group project to design an ecosystemic plan to create the highest possible wellbeing for a community.

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**CSpH 3201 Introduction to Mindfulness-Based Stress Reduction**

2 credit(s);

**Instructor:** Haley, Alex

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

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**CSpH 3301 Food Choices: Healing the Earth, Healing Ourselves**

3 credit(s); Credit will not be granted if credit has been received for: FSCN 3301;

**Instructor:** Brady, Linda J

**Description:** Food production in our current industrial system feeds the world, but at a cost to the environment. In nutrition
we often talk about a healthy diet, but only occasionally do we link our food and diet choices to agricultural practices and the health of the planet. This class will link the concepts of human health and planetary health in terms of food. There are no prerequisites to the class, but you should have been exposed to critical reading, writing, and thinking to make your journey through this class more fulfilling. Using the framework of complexity theory and gentle action, topics that we will cover include: human food/nutrition needs and food security, influences on our food choices and decisions, cultural and personal context of food choices, ways that food is produced-farm to fork, especially industrial monoculture, food choices and the earth's bio diversity, land use, water use and pollution, energy needs, climate change, alternatives-organic and sustainable, fair trade and economic policies and choices, global tradeoffs. Class is totally online, although several videos will be scheduled in the evening for easy student access (students could also view these by purchase or rental). This class works best for students who are self motivated and organized and who are comfortable reading, analyzing, and using data to backup their own opinions.

Style: 100% Web Based.
Grading: 50% written homework, 50% reflection paper.

CSpH 5000 Explorations in Integrative Therapies and Healing Practices: Coaching People with Clinical Conditions
2 credit(s), max credits 12, 4 completions allowed;
Instructor: Link,Holly Henslin
Description: Student may contact the instructor or department for information.

3 credit(s), max credits 12, 4 completions allowed;
Instructor: Larson,Jean Marie
Description: Student may contact the instructor or department for information.

CSpH 5000 Explorations in Integrative Therapies and Healing Practices: Food Literacy: What, Why and How to Eat
2 credit(s), max credits 12, 4 completions allowed;
Instructor: Denton,Carolyn Ward
Description: Student may contact the instructor or department for information.

CSpH 5101 Introduction to Integrative Healing Practices
3 credit(s);
Instructor: Culliton,Patricia D
Description: Cultural contexts of healing traditions. Complementary therapies presented by practitioners, including traditional Chinese medicine, meditation, mind-body healing, spiritual practices, energy healing, naturopathy, herbalism, movement therapies, homeopathy, manual therapies, and nutrition.

CSpH 5102 Art of Healing: Self as Healer
1 credit(s);
Instructor: Kubes,Laurie Frances
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 (nonlocal) experiences and the paradoxical mysteries that will prepare them for their student and personal lives.

CSpH 5115 Cultural Awareness, Knowledge and Health
3 credit(s);
Instructor: Hassel,Craig Alan
Description: In this class you will learn how culture and life experience can become key resources for health. You will learn from cultural communities how their knowledge can become a resource for individual, family and community health. Our learning environment offers you an interactive glimpse of the wisdom of cultural communities. Our approach helps you to see culture in your life, including your view of health, illness, and healing. As human knowledge is grounded in culture and constructed through culture, you will also develop your capacity to see culture within your professional education and practice. We will explore the cultural constructs underpinning the medical system, the role of culture in the interaction between practitioner and patient, and the role of the reconnection to cultural heritage in healing.
CSpH 5215 Forgiveness and Healing: A Journey Toward Wholeness
2 credit(s);
Instructor: Umbreit, Mark S
Description: This course will examine the impact of forgiveness on the process of inter-personal and intra-personal healing, as well as healing of conflict and trauma at the intergroup level. Forgiveness and healing will be examined in the context of understanding and tolerance between individuals and groups that have experienced severe conflict.

CSpH 5212 Peacebuilding Through Mindfulness: Transformative Dialogue in the Global Community
3 credit(s);
Instructor: Miller, John Barton
Description: This experiential course is based on the recognition that true peace-building requires human encounter through face to face dialogue among people in conflict. This approach is distinctly different from conventional courses on peace-building and dialogue which are highly cognitive, problem solving oriented, and focused on increased intellectual understanding of the complexity of the presenting issues. While this conventional approach is important and necessary, it is not sufficient. A more contemplative and mindfulness-based approach is a different way of understanding and responding to conflict and trauma. As an approach grounded in an open hearted moment by moment non-judgmental awareness, the focus is on honoring the enormous healing power of story, rather than simply obtaining a thorough intellectual understanding of the issue. Gaining a better understanding of the context of the conflict is important, but learning to work with the energy of conflict and trauma as expressed through what many believe to be the most powerful form of human communication, the non-verbal language of the soul, is even more important in repairing relationships and building bridges of understanding and tolerance between individuals and groups that have experienced severe conflict.

CSpH 5201 Spirituality and Resilience
2 credit(s);
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. Spirituality and Resilience Center for Spirituality and Healing CSpH 5201 Spring 2012 Two graduate or undergraduate credits offered by the University of Minnesota Center for Spirituality and Healing. ?Personal growth and reflection ?Professional development in health care, education, prevention and other helping services ?In-depth exploration of resilience theory and spirituality ?Specific applications of the Resilience/Health Realization model to students? lives, professions and helping relationships. ?Scheduled so working professionals may attend Objectives include literature critique, examination of personal resilience and protective factors, analysis of historical relationship of resilience and spirituality, experience and description of the principles of health realization, development of criteria and standards for assessing resilience in self and others, and synthesis of the understanding into professionally appropriate applications for each student?s situation. Students from classes offered since 2002 report the class is ?life-changing? and ?meaningful.? Frequently students say this is the most valuable course they have ever taken anywhere. The concentrated small seminar schedule offers an ?immersion experience? in this interesting and important topic. Various options for course reading materials accommodate different learning styles, personal interests and stimulate meaningful group dialogue. For registration details contact Carla Mantel at the Center for Spirituality at 612-624-9459. For other questions please call the faculty person for this course: Kathy Marshall Emerson, 612-554-05443. (marsh008@umn.edu). Fees vary for undergraduate, graduate program or continuing education enrollment status. Traditional graded, as well as audited or ? S/N? enrollment status options are available. 2012 Dates: Meets 4:30-8:00 p.m. five Wednesdays and two Saturdays 9 a.m. to 5 p.m. for a total of seven sessions. January 18, Wednesday 4:30 to 8 p.m. January 21, Saturday, 9 a.m. to 5 p.m. February 11, Saturday, 9 a.m. to 5 p.m. February 15, Wednesday, 4:30 to 8 p.m. March 21, Wednesday, 4:30 to 8 p.m. April 11, Wednesday, 4:30 to 8 p.m. May 2, Wednesday, 4:30 to 8 p.m. Location : St. Paul Campus, Ruttan B 36.
Style: 15% Lecture, 10% Film/Video, 55% Discussion, 10% Small Group Activities, 10% Student Presentation. 5 Wednesday evenings 4:30 - 8 P.M. and 2 Saturdays 9 a.m. to 5 p.m.
Grading: 80% reports/papers, 5% attendance, 15% class participation. Students have great opportunity for choice of readings, selection of paper topics, and shaping the corse to meet personal interests and needs.
Exam Format: None

CSpH 5202 Whole Systems Healing: Health and the Environment
3 credit(s);
Instructor: Miller, John Barton
Description: Whole Systems Healing (WSH) uses complexity theory to explore the interface between human and environmental health. It also describes practical ways to optimize both. Even if you're not in a health-related field, CSpH 5212 will let you see your discipline with new eyes. All complex systems, however diverse, follow certain laws and processes. Complexity theory shows you what makes them tick. Learn how you can use WSH to optimize the functioning of the systems in your own life, in your field, and in the world!
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);
**Instructor:** Storlie,Erik Fraser
**Description:** Students will work to integrate meditation practice into daily life, cultivating awareness of the fundamental oneness of body, brain, mind, and universe. Attention will be given to mind-body interactions in health, the "hard problem" of consciousness in brain science, and the emergence of compassion, wisdom, and healing in non-discursive awareness.

CSpH 5226 Advanced Meditation: Body, Brain, Mind, and Universe
1 credit(s);
**Instructor:** Kreitzer,MaryJo
**Description:** This section of CSPH 5226 is an independent study designed for graduate study of MBSR techniques and their efficacy in clinical practice. Please contact instructor for more information.

CSpH 5311 Introduction to Traditional Chinese Medicine
A-F only, 2 credit(s);
**Instructor:** Hafner,Christopher
**Description:** This course will introduce you to the general theory and practice of Traditional Chinese Medicine (TCM). Although the course is designed as a survey course and will include information about the history and cultural setting of Chinese medicine in Asia, we will focus primarily on TCM as it is practiced in the United States today. We will begin the course by exploring the Chinese world view, with its focus on ?taking things as a whole? and its emphasis on harmony, and discuss the various philosophies that contributed to the creation and evolution of Chinese medicine in China and throughout the sphere of Chinese cultural influence in Asia. We will then go on to define the basic terminology of TCM and examine the fundamental concepts, principles, and theories of Chinese medicine and how they are applied in both the preservation of health and the treatment of disease. We will complete the course with an investigation of the use of the more common treatment modalities and therapies, such as acupuncture, moxibustion, herbal medicine, and qi gong/meditation, and give you the opportunity to observe their practice in a clinical setting.

CSpH 5343 Ayurveda Medicine: The Science of Self-healing
2 credit(s);
**Instructor:** Manvikar,Asavari
**Description:** This course will introduce students to the basic principles of Ayurveda, the Science of self-healing. It will also cover evidence based information available on Ayurvedic Medicine. Ayurveda emphasizes balance of body, mind and spirit to achieve the optimum health through natural means. Course content will include Ayurvedic constitutional types and practices including food, herbal medicine, detoxification and massage. Students will examine how Ayurvedic principles and practices can be integrated into personal plans for health and well-being and how Ayurveda is being integrated into healthcare settings.

**Style:** 60% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 10% Student Presentation. Fall semester section is taught in-person. Spring semester section is completely online.

**Grading:** 30% final exam, 30% journal, 40% in-class presentation. The purpose of assignments and their grading is to review and synthesize the course material, develop critical thinking, enhance learning, explore various resources to understand the topics in depth and acquire more knowledge.

**Exam Format:** Short answer questions based on understanding of basic principles.

CSpH 5401 People, Plants, and Drugs: Introduction to Ethnopharmacology
3 credit(s);
**Instructor:** McKenna PhD,Dennis Jon
**Description:** Ethnopharmacology can be defined as "The interdisciplinary scientific investigation of biologically active substances utilized by humans. “ As such, ethnopharmacology combines aspects of botany, natural products chemistry, conventional pharmacology, pharmacognosy, anthropology, medicine, and even psychology and the comparative study of religions into a synthetic discipline whose subject matter is human interactions with biologically active plants and animals as medicines, poisons, and "recreational" or ritual intoxicants. Although theoretically ethnopharmacology could include
human uses of drugs and toxins in contemporary, post-industrial societies, in practice its primary focus is on indigenous and non-Western cultures. Part of the scope of ethnopharmacology is the documentation of the plants and animals used as drugs and poisons in such cultures, and the ethnographic description of their preparation and use. Another important component of the study of ethnopharmacology, however, is the application of state-of-the-art scientific methods, borrowed from taxonomy, natural products chemistry, and conventional pharmacology, to identify, isolate, and characterize the active compounds responsible for the actions of drugs and poisons used in non-Western cultures. It is this aspect of ethnopharmacology that has led time and again to the discovery of important medicines that subsequently became integrated into the Western physician's pharmacopoeia. This course will cover both the ethnographic and scientific aspects of ethnopharmacology about equally. Emphasis will be placed on helping students to appreciate the importance of ethnopharmaceutical investigations in the process of drug discovery and the evolution of modern medicine, and to develop a cross-cultural perspective on human interactions with drugs and toxins. Drug use and abuse is as old as the human condition, and different cultures have evolved different ways of using the drugs and toxins in their natural environment in both abusive and constructive ways. This course will examine the varieties of ways that humans interact with biologically active organisms in their environment.

Style: 5% Lecture, 5% Film/Video, 40% Discussion, 30% Small Group Activities, 20% Student Presentation.
weekly online discussion forum ~1-2 hr/wk weekly online current events forum ~1 hr/week MIKHAL blog ~ 5 hr/semester Group projects ~ 5-10 hr/semester midterm quiz ~2-4 hr study time final exam ~ 2-4 hr study time
Grading: 5% final exam, 30% special projects, 5% quizzes, 10% journal, 10% reflection paper, 40% class participation.
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 5561 Overview of the Creative Arts in Health and Healing
2 credit(s);
Instructor: Heiderscheit PhD, Annie Lynne
Description: In this course you will learn how various creative arts therapies are integrated into the healthcare environment to promote healing and well-being. You will hear from professionals trained in art therapy, poetry therapy, dance/movement therapy and music therapy, who will introduce how they implement their modality into various clinical settings. Additionally, each therapist will guide the class in an experiential exercise, to give you a first hand experience in each modality. The primary instructional strategies that will be utilized for this course include: experiential, discussions, readings, individual learning interventions and lectures.

CSpH 5631 Healing Imagery I
2 credit(s);
Instructor: Heiderscheit PhD, Annie Lynne
Description: In this course you will learn how imagery and imagery interventions are implemented for healing, and to promote health and well-being. You will experience a wide variety of imagery interventions in class and work on creating your own imagery interventions. The primary instructional strategies that will be utilized for this course include: experiential, discussions, readings, lecture and individual learning interventions.

CSpH 5641 Animals in Health Care: The Healing Dimensions of Human/Animal Relationships
3 credit(s);
Instructor: Larson, Jean Marie
Description: This course is designed to introduce students to the core principles of Animal-Assisted Interventions (AAI) in the context of multiple healthcare and social service related settings. Students will learn the history, rationale, theoretical and evidence-based approach to practicing AAI. Students will learn to identify and describe the safety guidelines and national standards of care for inclusion of animals in therapeutic settings. Students will evaluate peer-reviewed literature in AAI research identifying the strengths/weaknesses of published material and synthesizing findings from multiple studies. The course will highlight a variety of community-based AAI interventions along with in-class demonstrations.

CSpH 5702 Fundamentals of Health Coaching II
A-F only, 4 credit(s);
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);
Instructor: Lawson MD, Karen Lynn
Description: Student may contact the instructor or department for information.

CSpH 8191 Independent Study in Integrative Therapies and Healing Practices
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Cameron PhD, Miriam Elaine
Description: Student may contact the instructor or department for information.

CSpH 8191 Independent Study in Integrative Therapies and Healing Practices
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Johnson, Mary Buntrock
Description: Student may contact the instructor or department for information.

CSpH 8191 Independent Study in Integrative Therapies and Healing Practices
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Kreitzer, Mary Jo
Description: Student may contact the instructor or department for information.

CSpH 8191 Independent Study in Integrative Therapies and Healing Practices
1-6 credit(s), max credits 6, 1 completion allowed;
Chemical Engineering  151 Amundson Hall

ChEn 3006 Mass Transport and Separation Processes
   A-F only, 4 credit(s);
   Instructor: Zasadzinski, Joseph Anthony
   Description: Student may contact the instructor or department for information.

ChEn 3041 Industrial Assignment I
   A-F only, 2 credit(s); 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: Francis, Lorraine F
   Description: Student may contact the instructor or department for information.

ChEn 3102 Reaction Kinetics and Reactor Engineering
   A-F only, 4 credit(s);
   Instructor: Daoutidis, Prodromos
   Description: Student may contact the instructor or department for information.

ChEn 3201 Numerical methods in ChEn applications
   A-F only, 3 credit(s);
   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); 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); 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); 3041, completion of required courses in ChEn prog through fall sem of 4th year, GPA of at least 2.80, registration in co-op prog
   Credit will not be granted if credit has been received for: MATS 4041;
   Instructor: Francis, Lorraine F
   Description: Student may contact the instructor or department for information.

ChEn 4214 Polymers
   A-F only, 3 credit(s);
   Instructor: Lodge, Timothy P
   Description: Student may contact the instructor or department for information.

ChEn 4223W Polymer Laboratory
   2 credit(s); 4214 or CHEM 4214 or CHEM 4221 or 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: Reineke PhD, Theresa Marie
   Description: Student may contact the instructor or department for information.

ChEn 4502W Chemical Engineering Design II
   A-F only, 2 credit(s); Meets CLE req of Writing Intensive
   Instructor: McCormick, Alon Victor
   Description: Course objectives and outcomes This course is about Chemical Product Design. You will build on all of your Chemical Engineering courses, especially Design I. You will need all your developed technical and teamskills. This class is designed for final-semester, graduating chemical engineers to stretch and develop themselves with very open-ended
challenges; to broaden their technical horizons; and to increase achievement of student outcomes associated with their early profession. In this course we address what the early design process is like in many modern industrial environments for chemical engineers participating in multidisciplinary teams for new product design. The process is multidisciplinary, open-ended, and strategic. The focus is on generating and deciding among possible new products, rather than on optimal ways to make a particular product (which you worked on extensively in ChEn 4501). Many product design attempts do not lead to immediate success; but if the design is pursued carefully, product designs that seem to fail may later be found just "ahead of their time" and can plant the seeds for future design successes. This course is focused on team project work that will be assigned and supervised by your section instructor. After the first few weeks, you will work on most of your assignments and on your project in a team. The results of your work will be given in presentations by your team as well as in written memos and a final report. Typically, you will prepare at least one memo or presentation each week. You will perform much of the work of the class during classtimes. (Some lecture class times will also be used for your group work.) Your instructor will typically be available and will expect to hear from you even during classtimes that are scheduled for group work. Attendance is mandatory at all classtimes. You must email your instructor and your groupmembers in advance to notify them and provide reason for any absence. (Good reasons can include interviews.) If you miss a graded assignment, you will need to arrange a makeup assignment with your instructor. Professional participation in class functions and group meetings will be reflected in your grade. Lectures and class-wide presentations will usually be on Mondays and Wednesdays. These will include lectures on: ? manufacturing and performance specifications in different sectors of the chemical (and materials and biological) industries, ? on professional writing and style in the discipline, ? and assorted topics from guest lecturers illustrating contemporary chemical engineering design. Typically there will be quizzes or in-class assignments based on lectures. Friday lecture times will often be reserved for your group work to help you complete your assignments. (Mondays and Wednesdays will also be used occasionally.)

ChEn 4593 Directed study

OPT No Aud, 1-4 credit(s), max credits 6, 3 completions allowed;
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;
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 4594H Directed Research - Honors

A-F only, 1-4 credit(s), max credits 6, 3 completions allowed;
Instructor: Kumar, Satish
Description: Student may contact the instructor or department for information.

ChEn 4707 Advanced Undergraduate Statistical Thermodynamics and Kinetics

A-F only, 3 credit(s);
Instructor: Kaznessis, Yiannis
Description: Student may contact the instructor or department for information.

ChEn 5531 Electrochemical Engineering and Renewable Energy

A-F only, 3 credit(s); [MATS 3011 or instr consent], [upper div CSE or grad student] Credit will not be granted if credit has been received for: MATS 5531;
Instructor: Smyrl, 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; 3005 or 4005 or equiv Credit will not be granted if credit has been received for: ME 5381;
Instructor: Odde, David John
Description: Student may contact the instructor or department for information.

ChEn 8101 Fluid Mechanics I: Change, Deformation, Equations of Flow

A-F only, 3 credit(s);
Instructor: Kumar, Satish
Description: Student may contact the instructor or department for information.
ChEn 8402 Statistical Thermodynamics and Kinetics
A-F only, 3 credit(s);
Instructor: Kaznessis,Yiannis
Description: Student may contact the instructor or department for information.

ChEn 8754 Systems Analysis of Biological Processes
3 credit(s);
Instructor: Hu,Wei-Shou
Description: This course is designed for graduate students from life sciences, chemical and physical sciences and engineering with keen interest in quantitative analysis and design of biological systems. The advances in genomic science and the advances in high throughput transcriptional and translational analytical tools have made biological research data multi-dimensional; one can possibly relate biological processes at molecular level to physiological event at cellular level or even at the organisms or population levels. The exploitation of those advances also requires us to deploy new analysis tools that were noted in different disciplines. This course aims to introduce methodology for analyzing data attained at a genomic level to their integration for interpreting physiological events. It emphasizes the conceptual appreciation of the quantification of molecular event that constitutes chemical processes in living systems.
Style: 70% Lecture, 10% Discussion, 10% Laboratory, 10% Student Presentation.
Grading: 10% mid exam, 10% final exam, 30% reports/papers, 30% written homework, 15% in-class presentation, 5% class participation.

ChEn 8901 Seminar
S-N only, 1 credit(s), max credits 9, 9 completions allowed;
Instructor: Kaznessis,Yiannis
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: Kaznessis,Yiannis
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: Kaznessis,Yiannis
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;
Instructor: Massari,Aaron
Description: Student may contact the instructor or department for information.

Chemistry
139 Smith Hall

Chem 1015 Introductory Chemistry: Lecture
3 credit(s);
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);
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 1061 Chemical Principles I**

3 credit(s); Grade of at least C- in [1011 or 1015] or [passing placement exam, Concurrent registration is required (or allowed) in 1065]; intended for science or engineering majors; Concurrent registration is required (or allowed) in 1065; registration for 1065 must precede registration for 1061 Credit will not be granted if credit has been received for: CHEM 1071H; Meets CLE req of Physical Sciences

**Instructor:** Ellis, John Emmett

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

**Chem 1061 Chemical Principles I**

3 credit(s); Grade of at least C- in [1011 or 1015] or [passing placement exam, Concurrent registration is required (or allowed) in 1065]; intended for science or engineering majors; Concurrent registration is required (or allowed) in 1065; registration for 1065 must precede registration for 1061 Credit will not be granted if credit has been received for: CHEM 1071H; Meets CLE req of Physical Sciences

**Instructor:** Hillmyer, Marc Andrew

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

**Chem 1061 Chemical Principles I**

3 credit(s); Grade of at least C- in [1011 or 1015] or [passing placement exam, Concurrent registration is required (or allowed) in 1065]; intended for science or engineering majors; Concurrent registration is required (or allowed) in 1065; registration for 1065 must precede registration for 1061 Credit will not be granted if credit has been received for: CHEM 1071H; Meets CLE req of Physical Sciences

**Instructor:** Salmon, Debra J

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

**Chem 1062 Chemical Principles II**

3 credit(s); Grade of at least C- in 1061 or equiv, Concurrent registration is required (or allowed) in 1066; registration for 1066 must precede registration for 1062 Credit will not be granted if credit has been received for: CHEM 1072H; Meets CLE req of Physical Sciences

**Instructor:** Leopold, Kenneth R

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

**Chem 1062 Chemical Principles II**

3 credit(s); Grade of at least C- in 1061 or equiv, Concurrent registration is required (or allowed) in 1066; registration for 1066 must precede registration for 1062 Credit will not be granted if credit has been received for: CHEM 1072H; Meets CLE req of Physical Sciences

**Instructor:** Stein, Andreas

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

**Chem 1062 Chemical Principles II**

3 credit(s); Grade of at least C- in 1061 or equiv, Concurrent registration is required (or allowed) in 1066; registration for 1066 must precede registration for 1062 Credit will not be granted if credit has been received for: CHEM 1072H; Meets CLE req of Physical Sciences

**Instructor:** Salmon, Debra J

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

**Chem 1062 Chemical Principles II**

3 credit(s); Grade of at least C- in 1061 or equiv, Concurrent registration is required (or allowed) in 1066; registration for 1066 must precede registration for 1062 Credit will not be granted if credit has been received for: CHEM 1072H; Meets CLE req of Physical Sciences

**Instructor:** Driessen, Michelle

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

**Chem 1065 Chemical Principles I Laboratory**

A-F only, 1 credit(s); Concurrent registration is required (or allowed) in 1061 Credit will not be granted if credit has been received for: CHEM 1075H; Meets CLE req of Physical Sciences

**Instructor:** Driessen, Michelle

**Description:** Student may contact the instructor or department for information.
Chem 1066 Chemical Principles II Laboratory
A-F only, 1 credit(s); Concurrent registration is required (or allowed) in 1062
Credit will not be granted if credit has been received for: CHEM 1076H; Meets CLE req of Physical Sciences
Instructor: Driessen, Michelle
Description: Student may contact the instructor or department for information.

Chem 1072H Honors Chemistry II
A-F only, 3 credit(s); 1071H, Concurrent registration is required (or allowed) in 1076H, honors student, registration for 1076H must precede registration for 1072H
Credit will not be granted if credit has been received for: CHEM 1062; Meets CLE req of Physical Sciences
Instructor: Haynes, Christy L
Description: Student may contact the instructor or department for information.

Chem 1076H Honors Chemistry II Laboratory
A-F only, 1 credit(s); Concurrent registration is required (or allowed) in 1072H, honors student
Credit will not be granted if credit has been received for: CHEM 1066; Meets CLE req of Physical Sciences
Instructor: Driessen, Michelle
Description: Student may contact the instructor or department for information.

Chem 1905 Freshman Seminar
A-F only, 2 credit(s), max credits 3, 1 completion allowed;
Instructor: Bowser, Michael
Description: Student may contact the instructor or department for information.

Chem 2094 Directed Research
1-3 credit(s), max credits 3, 1 completion allowed;
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);
Instructor: Frost, Nicholas W
Description: Student may contact the instructor or department for information.

Chem 2231 Organic Chemistry II
A-F only, 4 credit(s); Meets CLE req of Physical Sciences
Instructor: Muthyala, Rajeev S.
Description: Student may contact the instructor or department for information.

Chem 2231 Organic Chemistry II
A-F only, 4 credit(s); Meets CLE req of Physical Sciences
Instructor: DeZutter, Christopher Blake
Description: Student may contact the instructor or department for information.

Chem 2231 Organic Chemistry II
A-F only, 4 credit(s); Meets CLE req of Physical Sciences
Instructor: Nelson, Michelle Kathleen
Description: Student may contact the instructor or department for information.

Chem 2231 Organic Chemistry II
A-F only, 4 credit(s); Meets CLE req of Physical Sciences
Instructor: Butani, Deepali
Description: Student may contact the instructor or department for information.

Chem 2301 Organic Chemistry I
3 credit(s); C- or better in 1062/1066 or 1072H/1076H or equiv or B or better in 1071H/1075H, 1072H/1076H
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 2331H;
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); Grade of at least C- in 2301
Credit will not be granted if credit has been received for: CHEM 2304;
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 2304 Organic Chemistry II for the Life Sciences
3 credit(s); Grade of at least C- in 2301; designed for life sciences majors
Credit will not be granted if credit has been received for: CHEM 2302;
Instructor: Taton, T. Andrew
Description: Student may contact the instructor or department for information.

Chem 2304 Organic Chemistry II for the Life Sciences
3 credit(s); Grade of at least C- in 2301; designed for life sciences majors
Credit will not be granted if credit has been received for: CHEM 2302;
Instructor: Pomerantz, William Charles
Description: Student may contact the instructor or department for information.

Chem 2311 Organic Lab
4 credit(s); Grade of at least C- in [2302, 2304] or [Concurrent registration is required (or allowed) in 2302, Concurrent registration is required (or allowed) in 2304]
Credit will not be granted if credit has been received for: CHEM 2312H;
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 ("Pavia") 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 2311 Organic Lab
4 credit(s); Grade of at least C- in [2302, 2304] or [Concurrent registration is required (or allowed) in 2302, Concurrent registration is required (or allowed) in 2304]
Credit will not be granted if credit has been received for: CHEM 2312H;
Instructor: Wissinger, Jane E.
Description: Student may contact the instructor or department for information.

Chem 2332H Honors Elementary Organic Chemistry II
A-F only, 3 credit(s); At least C- in 2331H, UHP student
Credit will not be granted if credit has been received for: CHEM 2302;
Instructor: Douglas, Christopher J.
Description: Student may contact the instructor or department for information.
Chem 2333 General Chemistry II
  A-F only, 4 credit(s);
  Instructor: Prat-Resina,Xavier
  Description: Student may contact the instructor or department for information.

Chem 2333 General Chemistry II
  A-F only, 4 credit(s);
  Instructor: Larsen,Peter Lawrence
  Description: Student may contact the instructor or department for information.

Chem 2333 General Chemistry II
  A-F only, 4 credit(s);
  Instructor: Bampoh,Victoria Naa Kwale
  Description: Student may contact the instructor or department for information.

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

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

Chem 4021 Computational Chemistry
  3 credit(s);
  Instructor: Cramer,Christopher J
  Style: 30% Lecture, 25% Discussion, 15% Laboratory, 15% Small Group Activities, 10% Demonstration, 5% Field Trips. see class outline on website 
  Grading: see course syllabus on website 
  Exam Format: see course syllabus on website

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

Chem 4094V Directed Research
  1-5 credit(s), max credits 75, 15 completions allowed;Meets CLE req of Writing Intensive
  Instructor: Stathopoulos,Stephanie M
  Description: Student may contact the instructor or department for information.

Chem 4094W Directed Research
  1-5 credit(s), max credits 75, 15 completions allowed;Meets CLE req of Writing Intensive
  Instructor: Stathopoulos,Stephanie M
  Description: Student may contact the instructor or department for information.

Chem 4111W Modern Instrumental Methods of Chemical Analysis Lab
  A-F only, 2 credit(s);Meets CLE req of Writing Intensive
  Instructor: Arriaga,Edgar
  Description: Student may contact the instructor or department for information.

Chem 4214 Polymers
  A-F only, 3 credit(s);
  Instructor: Lodge,Timothy P
Chem 4223W Polymer Laboratory
2 credit(s); 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: Reineke PhD, Theresa Marie
Description: Student may contact the instructor or department for information.

Chem 4311W Advanced Organic Chemistry Lab
4 credit(s); 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);
Instructor: Noland, Wayland E
Description: Student may contact the instructor or department for information.

Chem 4352 Physical Organic Chemistry
3 credit(s);
Instructor: Douglas, Christopher J.
Description: Student may contact the instructor or department for information.

Chem 4412 Chemical Biology of Enzymes
3 credit(s);
Instructor: Que Jr, Lawrence
Description: Student may contact the instructor or department for information.

Chem 4501 Introduction to Thermodynamics, Kinetics, and Statistical Mechanics
A-F only, 3 credit(s);
Instructor: Fattahi, Alireza
Description: Student may contact the instructor or department for information.

Chem 4502 Introduction to Quantum Mechanics and Spectroscopy
A-F only, 3 credit(s);
Instructor: Leopold, Doreen Geller
Description: Student may contact the instructor or department for information.

Chem 4601 Green Chemistry
3 credit(s); Meets CLE req of Environment
Instructor: Penn, Lee
Description: Student may contact the instructor or department for information.

Chem 4701 Inorganic Chemistry
3 credit(s);
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, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Mann, Kent R
Description: Student may contact the instructor or department for information.

Chem 4735 Bioinorganic Chemistry
Chem 4745 Advanced Inorganic Chemistry
3 credit(s);
Instructor: Pierre, Valerie Christine
Description: Student may contact the instructor or department for information.

Chem 4894H Senior Honors Thesis
A-F only, 1-3 credit(s), max credits 6;
Instructor: Stathopoulos, Stephanie M
Description: Student may contact the instructor or department for information.

Chem 5210 Materials Characterization
4 credit(s);
Instructor: Massari, Aaron
Description: Student may contact the instructor or department for information.

Chem 5755 X-Ray Crystallography
A-F only, 4 credit(s);
Instructor: Young Jr, Victor G
Description: Student may contact the instructor or department for information.

Chem 8021 Computational Chemistry
4 credit(s);
Instructor: Cramer, Christopher J
Style: 30% Lecture, 25% Discussion, 15% Laboratory, 15% Small Group Activities, 10% Demonstration, 5% Field Trips.
see class outline on website
Grading: see course syllabus on website
Exam Format: see course syllabus on website

Chem 8066 Professional Conduct of Chemical Research
S-N only, 1 credit(s);
Instructor: Truhlar, Donald G
Description: Student may contact the instructor or department for information.

Chem 8081 M.S. Plan B Project I
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Thao, Nancy
Description: Student may contact the instructor or department for information.

Chem 8082 M.S. Plan B Project II
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Thao, Nancy
Description: Student may contact the instructor or department for information.

Chem 8151 Analytical Separations and Chemical Equilibria
4 credit(s);
Instructor: Carr, Peter William
Description: Student may contact the instructor or department for information.

Chem 8155 Advanced Electroanalytical Chemistry
4 credit(s);
Instructor: Buhlmann, Phil
Description: The goal of this course is to familiarize students with electroanalytical techniques and their physicochemical
background, such as the thermodynamics and kinetics of electron and ion transfer, the electric double layer, and mass transfer by diffusion and migration. Electrochemical methods that are presented in detail include ion-selective potentiometry, chronoamperometry, chronocoulometry, cyclic voltammetry, pulse voltammetry, ion-transfer voltammetry, and impedance spectroscopy, as well as some of their applications in bioelectroanalysis. Instrumentation that is discussed includes rotating disk electrodes, microelectrodes, chemically modified electrodes, scanning electrochemical microscopy (SECM), EC-STM, and the quartz crystal microbalance.

**Style:** 100% Lecture.

**Grading:** 45% mid exam, 35% final exam, 15% written homework, 5% other evaluation.

**Chem 8211 Physical Polymer Chemistry**
- 4 credit(s); Undergrad physical chem course
- Credit will not be granted if credit has been received for: MATS 8211
- Instructor: Bates, Frank S
- **Description:** Student may contact the instructor or department for information.

**Chem 8322 Advanced Organic Chemistry**
- 4 credit(s);
- Instructor: Noland, Wayland E
- **Description:** Student may contact the instructor or department for information.

**Chem 8352 Physical Organic Chemistry**
- 4 credit(s);
- Instructor: Douglas, Christopher J.
- **Description:** Student may contact the instructor or department for information.

**Chem 8412 Chemical Biology of Enzymes**
- 4 credit(s);
- Instructor: Que Jr, Lawrence
- **Description:** Student may contact the instructor or department for information.

**Chem 8552 Quantum Mechanics II**
- 4 credit(s);
- Instructor: Gagliardi, Laura
- **Description:** Second Quantization Spin in Second Quantization The genealogical coupling scheme; density matrices Orbital Rotations Exact and Approximate Wave Functions the exact wave function; the variational principle; size-extensivity Atomic Basis Functions Gaussian Basis Functions Short-Range Interactions and Orbital Expansions: the Coulomb hole; the Coulomb cusp; approximate treatments of the ground-state helium atom Molecular Integral Evaluation Hartree Fock Theory Configuration-Interaction Theory Multiconfigurational Self-Consistent Field Theory Coupled-Cluster Theory Perturbation Theory Multiconfigurational perturbation theory Energy Derivatives and Molecular Properties Relativistic Quantum Chemistry

**Chem 8563 Molecular Simulations**
- 2 credit(s);
- Instructor: Siepmann, Ilja
- **Description:** Student may contact the instructor or department for information.

**Chem 8564 Laser Spectroscopy**
- 2 credit(s);
- Instructor: Massari, Aaron
- **Description:** Student may contact the instructor or department for information.

**Chem 8601 Seminar: Modern Problems in Chemistry**
- S-N only, 1 credit(s);
- Instructor: Johns, James
- **Description:** Student may contact the instructor or department for information.

**Chem 8602 Seminar Presentation: Modern Problems in Chemistry**
- A-F only, 1 credit(s);
- Instructor: Johns, James
- **Description:** Student may contact the instructor or department for information.
Chem 8735 Bioinorganic Chemistry  
4 credit(s);  
Instructor: Pierre, Valerie Christine  
Description: Student may contact the instructor or department for information.

Chem 8745 Advanced Inorganic Chemistry  
4 credit(s);  
Instructor: Lu, Connie C  
Description: Student may contact the instructor or department for information.

**Chicano Studies  19 Scott Hall**

Chic 1102 Latinos in the United States: Culture and Citizenship  
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives  
Instructor: STAFF  
Description: Historical and cultural study of the complex and multilayered relationship that Latinos have with the U.S., their country of origin, as well as the social, cultural, and political dynamics that influence Latino identity, politics, and sense of belonging in the U.S. Focuses on the concept of cultural citizenship.

Chic 1102H Latinos in the United States: Culture and Citizenship  
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives  
Instructor: Duenes, Michael  
Description: Student may contact the instructor or department for information.

Chic 1275 Service Learning in the Chicano/Latino Community  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CHIC 3275; Meets CLE req of Civic Life and Ethics  
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. This course meets the Liberal Education Requirements in Civic Life and Ethics (theme).

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 3208 Mexico On My Mind  
3 credit(s); Credit will not be granted if credit has been received for: ARTH 3208; Meets CLE req of Arts/Humanities; meets CLE req of Global Perspectives  
Instructor: Afanador-Pujol, Angelica J  
Description: Student may contact the instructor or department for information.

Chic 3213 Chicano Music and Art  
A-F only, 3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US  
Instructor: Covarrubias, Alexandra Mendoza  
Description: What do rancheras, Tejana/o music, images of la Virgen de Guadalupe, and airbrushed lowriders say about Chicanos? How have Chicanos expressed their particular social location through murals, posters, tattoos, folk and fine art? How have Chicanos influenced punk rock? This course will begin to answer all of these questions as we focus on Chicana/o music and art produced in the United States during and after the Chicano Movement of the 1960s. Students will learn to situate artistic expression in its various forms within a larger historical, political and cultural context. We will explore the various ways in which art and music both reflect and shape Chicano culture and the impact Chicano culture has outside of the Chicano community. The course will ask that students grapple with what it means to be an American, particularly to American artists of Mexican descent?and to what political ends various facets of identity (i.e. ethnic/sexual/cultural/gender/etc.) are expressed artistically. Students will learn to recognize art and music as cultural texts
that are born out of specific political moments and imbued with meaning outside of what is readily apparent. They will
develop analytical skills that, once honed, can be used to read a wide variety of cultural texts beyond the scope of this
class.

Style: 25% Lecture, 15% Film/Video, 45% Discussion, 15% Student Presentation.
Grading: 20% reports/papers, 5% special projects, 50% reflection paper, 10% in-class presentation, 15% class
participation.

Chic 3223 Chicana/o and Latina/o Representation in Film
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Mendoza, Louis Gerard
Description: This course is an introduction to Chicana/o and Latina/o visual representation—the depiction of Latina/o
experience, history, and culture in film. Students will review and analyze independent and commercial films as well as learn
fundamental film theory and criticism, cinematic history, and the socio-historical context for analyzing films so that they can
better understand the politics of representation. This course will foster and analytical approach to film as texts that
illuminate deeply held beliefs around race, class, ethnicity, gender and national origin. Film, like most art forms, inevitably
involves meditations on personal and national identity. American film is particularly distinguished for its racialized
construction of America and Americans. While cinematic discourses on race are controversial especially the more overtly
racist views in early twentieth-century film—these discourses on race also are complex and change dramatically over time.
Chicano/Latino film will be studied as a form of cultural representation and insider communication. As they learn to interpret
for meaning, students will begin to see media production as a means of socialization rather than just as an art or
entertainment form.
Style: 25% Lecture, 40% Discussion. film viewing
Grading: 15% mid exam, 35% reports/papers, 10% special projects, 10% quizzes, 10% in-class presentation, 10% class
participation, 10% other evaluation. film reviews
Exam Format: essay

Chic 3275 Service Learning in the Chicano/Latino Community
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CHIC 1275; Meets CLE req of Civic
Life and Ethics
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. This course meets the Liberal Education Requirements in Civic
Life and Ethics (theme).
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 3352 Transnational Chicana/o Theory: Global Views/Borderland Spaces
3 credit(s);
Instructor: STAFF
Description: CHIC 3352: Transnational Chicana/o Theory: Global Views/Borderland Spaces ?The U.S.-Mexican border es
una herida abierta (is an open wound) where the Third World grates against the first and bleeds. And before a scab forms it
hemorrhages again, the lifeblood of two worlds merging to form a third country? a border culture.? —Gloria Anzaldua,
Borderlands/La Frontera The words of scholar activist Gloria Anzaldua underscore the long history of cultural clashes,
political inequality, economic competition, and social struggle in the U.S.-Mexico borderlands. Blurring the line between
American, Chicano and Latin American Studies, we will take Anzaldua?s observations as a starting point to explore the
conflict-ridden and violent historical development of the U.S.-Mexico border, the related political and economic dynamics of
?transnationalism? and the cultural and social expressions exerted by people living in the ?borderlands.? By exploring
issues such as conquest, racial violence, immigration, border policing, and the exchange of everything from culture to
contraband, students examine how people and communities sought to create notions of belonging in their rapidly changing
position between the first and third world. Such solutions included hybrid cultural expressions, cross-border community
formation, ethno-racial politics, and transnational identities. Students will explore the themes in three segments: 1) The
Border as a Literal Site of National Division and Power, 2) The Borderlands as a Hybrid Figurative State-of-being, and 3)
Border Communities, Identities and Struggles. By employing an interdisciplinary approach including history, folklore, literary
studies, ethnography, and policy analysis we will seek to identify the many ways ?borders? and ?borderlands? have been
conceived to engage significant debates about the U.S.-Mexico border and the transnational world we now live in.
Chic 3446 Chicana/o History II: WWII, El Movimiento, and the New Millennium
3 credit(s); Credit will not be granted if credit has been received for: HIST 3446; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Duenes, Michael
Description: This upper division history course examines the experiences of people of Mexican descent in the US. The course will cover changing notions of citizenship from WWII, the Chicano civil rights movement, the impact of immigration patterns and legislation, the cultural wars, and changing demographics of the new millennium. We will discuss the social, economic, and political changes that impact the day-to-day life of Mexican Americans. To organize the class, we will question the meaning of a radicalized “Mexican” identity in the United States. Ideas about race, class, and nation have been important in the shaping of modern assumptions about Mexicans’ role in the United States. We will consider how different groups of Mexicans have historically understood these ideas and their relationships to other Americans and other Latino groups.

Chic 3507W Introduction to Chicana/o Literature
3 credit(s); Credit will not be granted if credit has been received for: ENGL 3507W; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Covarrubias, Alexandra Mendoza
Description: Students will be introduced students to a variety of genres within Chicana/o literature. Emphasis will be placed 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: 15% reports/papers, 20% quizzes, 15% journal, 30% reflection paper, 10% in-class presentation, 10% class participation.

Chic 3771 Latino Social Power and Social Movements in the U.S.
3 credit(s);
Instructor: Sass Zaragoza, Lisa
Description: Student may contact the instructor or department for information.

Chic 3993 Directed Studies
1-9 credit(s), max credits 16, 16 completions allowed;
Instructor: Torres PhD, Eden E.
Description: Student may contact the instructor or department for information.

Chic 4232 Chicana/o - Latina/o Gender and Sexuality Studies
3 credit(s); Credit will not be granted if credit has been received for: GLBT 4232; Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: STAFF
Description: Explores critical thinking of Chicanas/os and Latinas/os around the construction of gender and the politics of sexual identity. Examines how the self is gendered in relationship to sexual, racial, class, and national identities under different social structural conditions. Considers the way in which the borders that define and confine sexual norms shift over time.

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 5993 Directed Studies
1-3 credit(s), max credits 16, 16 completions allowed;
Instructor: Torres PhD, Eden E.
Description: Student may contact the instructor or department for information.

Chic 5993 Directed Studies
1-3 credit(s), max credits 16, 16 completions allowed;
Instructor: Mendoza, Louis Gerard
Description: Student may contact the instructor or department for information.
CPsy 2301 Introductory Child Psychology
4 credit(s); 4 cr intro psych
Credit will not be granted if credit has been received for: CPSY 3301;
Instructor: Heinrichs PhD, Marian R
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course covers the period from conception through adolescence. The curriculum covers the principles and themes of development and is aligned closely with the textbook. To paraphrase the text: Development consists of age-related changes that are orderly, that is, change follows a logical sequence; cumulative, that is, each phase of development includes all the changes that occur before it; and directional, such that development always moves towards greater complexity. The challenge is to explain development. Our focus will be on research. We need to know how research happens, how it begins with a testable idea and then becomes real through observations or experiments with actual participants, and finally, how to think critically about the results and how this can impact policy.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams.

CPsy 2301 Introductory Child Psychology
4 credit(s); 4 cr intro psych
Credit will not be granted if credit has been received for: CPSY 3301;
Instructor: Ostergaard, Emily J
Description: Student may contact the instructor or department for information.

CPsy 2301 Introductory Child Psychology
4 credit(s); 4 cr intro psych
Credit will not be granted if credit has been received for: CPSY 3301;
Instructor: Warren, Henriette
Description: This undergraduate survey course will examine social and cognitive development from the prenatal period through adolescence. The major goals include fostering an understanding of the usefulness of a developmental approach to psychological issues, and familiarizing students with current research and methodology in child psychology. This course emphasizes normal physical, cognitive, emotional, and social development. Class sessions will include a mixture of lectures, discussion, videos, and group activities.
Style: 80% Lecture, 10% Discussion. instructional videos
Grading: 50% mid exam, 20% final exam, 15% reports/papers, 5% class participation, 10% laboratory evaluation.
Exam Format: multiple choice

CPsy 2301 Introductory Child Psychology
4 credit(s); 4 cr intro psych
Credit will not be granted if credit has been received for: CPSY 3301;
Instructor: Doom, Jenalee Rae
Description: Student may contact the instructor or department for information.

CPsy 2301 Introductory Child Psychology
4 credit(s); 4 cr intro psych
Credit will not be granted if credit has been received for: CPSY 3301;
Instructor: Casey, Erin C
Description: Student may contact the instructor or department for information.

CPsy 2301 Introductory Child Psychology
4 credit(s); 4 cr intro psych
Credit will not be granted if credit has been received for: CPSY 3301;
Instructor: Allen, Timothy A
Description: Student may contact the instructor or department for information.

CPsy 2301 Introductory Child Psychology
4 credit(s); 4 cr intro psych
Credit will not be granted if credit has been received for: CPSY 3301;
Instructor: Hetherington, Chelsea
Description: Student may contact the instructor or department for information.

CPsy 3301 Introductory Child Psychology for Social Sciences
4 credit(s); Credit will not be granted if credit has been received for: CPSY 2301;
Instructor: Warren, Henriette
Description: Student may contact the instructor or department for information.
CPsy 3301 Introductory Child Psychology for Social Sciences
4 credit(s); Credit will not be granted if credit has been received for: CPSY 2301;
Instructor: Warren, Henriette
Description: This undergraduate survey course will examine social and cognitive development from the prenatal period through adolescence. The major goals include fostering an understanding of the usefulness of a developmental approach to psychological issues, and familiarizing students with current research and methodology in child psychology. This course emphasizes normal physical, cognitive, emotional, and social development. Class sessions will include a mixture of lectures, discussion, videos, and group activities.
Style: 80% Lecture, 10% Discussion, instructional videos
Grading: 40% mid exam, 20% final exam, 25% reports/papers, 5% class participation, 10% laboratory evaluation.
Exam Format: multiple choice

CPsy 3308W Introduction to Research Methods in Child Psychology
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Elieff, Chryle Ann
Description: Student may contact the instructor or department for information.

CPsy 3308W Introduction to Research Methods in Child Psychology
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Karatekin, Canan
Description: 100% Lecture.
Grading: The course will include many ways of evaluating students. Please contact the instructor for the specific grading criteria.
Exam Format: Short-response

CPsy 3360H Child Psychology Honors Seminar
A-F only, 2 credit(s);
Instructor: Zelazo, Philip David
Description: Student may contact the instructor or department for information.

CPsy 4302 Infant Development
A-F only, 3 credit(s);
Instructor: Elison, Jed T.
Description: Student may contact the instructor or department for information.

CPsy 4303 Adolescent Psychology
A-F only, 3 credit(s);
Instructor: Hecht, Kathryn F
Description: Student may contact the instructor or department for information.

CPsy 4310 Special Topics in Child Development: Second Language Learning in Children
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Sera PhD, Maria D
Description: Student may contact the instructor or department for information.

CPsy 4313W Disabilities and Development
4 credit(s); Meets CLE req of Writing Intensive
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 4329 Biological Foundations of Development**

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

**Instructor:** Thomas, Kathleen M

**Description:** Overview of the biological correlates of developmental processes, with special attention to genetic and environmental influences on brain development. Topics include an overview of brain development, the role of pre- and perinatal environments on biological and brain development, neurobehavioral approaches to sensory, cognitive, social and emotional development, and biological and neurophysiological correlates of atypical child development. This course is only offered Spring semesters.

**Style:** 80% Lecture, 5% Discussion, 5% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.

**CPsy 4329 Biological Foundations of Development**

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

**Instructor:** Hodel, Amanda Sue

**Description:** Overview of the biological correlates of developmental processes, with special attention to genetic and environmental influences on brain development. Topics include an overview of brain development, the role of pre- and perinatal environments on biological and brain development, neurobehavioral approaches to sensory, cognitive, social and emotional development, and biological and neurophysiological correlates of atypical child development. This course is only offered Spring semesters.

**Style:** 80% Lecture, 5% Discussion, 5% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.

**CPsy 4331 Social and Personality Development**

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

**Instructor:** Stellern, Sarah Ann

**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 course is an introductory survey of methods, theories, and research on the development of social relations and behavior from infancy through early adolescence.

**Style:** Online

**Grading:** See attached syllabus

**CPsy 4331 Social and Personality Development**

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

**Instructor:** Warren, Henriette

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

**CPsy 4344W Children, Youth in Society**

**A-F only, 3 credit(s); Meets CLE req of Writing Intensive**

**Instructor:** Wenner, Jennifer Ann

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

**CPsy 4343 Cognitive Development**

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

**Instructor:** Mazzocco, Michele M

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

**CPsy 4345 Language Development and Communication**

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

**Instructor:** Koenig, Melissa

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

**CPsy 4347W Senior Project**
A-F only, 2 credit(s); Meets CLE req of Writing Intensive
Instructor: Shlafer, Rebecca J
Description: Student may contact the instructor or department for information.

CPsy 4993 Directed Experiences in Early Childhood Education
A-F only, 3 credit(s);
Instructor: Carlson, Ann Ruhl
Description: This is a required course for students in the Foundations of Early Childhood and the Early Childhood Initial Licensure program. It is an introduction to the field of early childhood education. A primary focus of the class is to review typical development at various ages and stages of the early childhood period and to apply this knowledge in educational settings. There is a practicum component to the course; students will be observing and participating in child development programs regularly. There will be observation assignments associated with practicum work. Students will perform systematic observation of children accurately and objectively. Additionally, various topics and themes of interest to early childhood professionals will be explored.
Grading: 15% final exam, 20% reports/papers, 25% quizzes, 20% written homework, 20% attendance.

CPsy 4994 Directed Research in Child Psychology
1-4 credit(s), max credits 8, 8 completions allowed;
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; 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; Meets CLE req of Writing Intensive
Instructor: Maratsos, Michael P
Description: Student may contact the instructor or department for information.

CPsy 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; 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; Meets CLE req of Writing Intensive
Instructor: Georgieff, 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; 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; Meets CLE req of Writing Intensive
Instructor: Roisman, Glenn I
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; Meets CLE req of Writing Intensive
Instructor: Yonas, Albert
CPsy 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; Meets CLE req of Writing Intensive
Instructor: Sera PhD, Maria D
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; 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; Meets CLE req of Writing Intensive
Instructor: Gunnar PhD, Megan 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; 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; 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; Meets CLE req of Writing Intensive
Instructor: Gewirtz, Abigail
Description: Student may contact the instructor or department for information.

CPsy 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; Meets CLE req of Writing Intensive
Instructor: Reynolds, Arthur J.
Description: Student may contact the instructor or department for information.

CPsy 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; Meets CLE req of Writing Intensive
Instructor: Shlafer, Rebecca J
Description: Student may contact the instructor or department for information.

CPsy 4994V Directed Research in Child Psychology (Honors Thesis)
1-6 credit(s), max credits 6, 4 completions allowed; 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; 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; Meets CLE req of Writing Intensive
Instructor: Koenig, Melissa
Description: Student may contact the instructor or department for information.
Instructor: Mazzocco, Michele 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; Meets CLE req of Writing Intensive  
Instructor: Elison, Jed T.  
Description: Student may contact the instructor or department for information.

CPsy 4996 Field Study in Child Psychology  
S-N only, 1-4 credit(s), max credits 8, 8 completions allowed;  
Instructor: Warren, Henriette  
Description: Student may contact the instructor or department for information.

CPsy 5187 Master's Paper in Early Childhood Education  
S-N only, 2-4 credit(s), max credits 4, 1 completion allowed;  
Instructor: Carlson PhD, LaVonne  
Description: Student may contact the instructor or department for information.

CPsy 5252W Facilitating Social and Emotional Learning in Early Childhood Education  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Carlson PhD, LaVonne  
Description: Current theoretical/empirical literature and developmental knowledge as basis for planning, implementing, and evaluating social and emotional growth and development of young children. For undergraduate students in Early Childhood Foundations, M.Ed/ILP students obtaining either an Early Childhood or and Early Childhood Special Education License.

CPsy 5254 Facilitating Creative and Motor Learning in Early Childhood Education  
A-F only, 2 credit(s);  
Instructor: Durkin, Frances Xavier  
Description: Student may contact the instructor or department for information.

CPsy 5281 Student Teaching in Early Childhood Education  
S-N only, 1-6 credit(s), max credits 6, 1 completion allowed;  
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);  
Instructor: Carlson, Elizabeth Anne  
Description: Student may contact the instructor or department for information.

CPsy 5521 Prevention and Intervention in Infant and Early Childhood Mental Health II  
A-F only, 3 credit(s);  
Instructor: Carlson, Elizabeth Anne  
Description: Student may contact the instructor or department for information.

CPsy 5525 Reflective Supervision in Infant and Early Childhood Mental Health: Clinical  
S-N only, 1 credit(s);  
Instructor: Carlson, Elizabeth Anne  
Description: Student may contact the instructor or department for information.

CPsy 8102 Writing Developmental Psych Grants for NIH and NSF  
A-F only, 1-3 credit(s), max credits 4;  
Instructor: Carlson, Stephanie M  
Description: Student may contact the instructor or department for information.

CPsy 8302 Developmental Psychology: Social and Emotional Processes  
4 credit(s);  
Instructor: Roisman, Glenn I  
Description: Student may contact the instructor or department for information.
CPsy 8307 Preliminary Seminar
S-N only, 1 credit(s);
Instructor: Maratsos, Michael P
Description: Student may contact the instructor or department for information.

CPsy 8322 Apprenticeship in Teaching Developmental Psychology
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Elieff, Chryle Ann
Description: Student may contact the instructor or department for information.

CPsy 8360 Special Topics in Developmental Psychology: Clinical Intervention with Children
3 credit(s), max credits 21, 7 completions allowed;
Instructor: Gewirtz, Abigail
Description: Student may contact the instructor or department for information.

CPsy 8606 Advanced Developmental Psychopathology
3 credit(s);
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 24, 24 completions allowed;
Instructor: Cicchetti PhD, Dante
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Maratsos, Michael P
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
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 24, 24 completions allowed;
Instructor: Georgieff, Michael K
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Thomas, Kathleen M
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Roisman, Glenn I
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Yonas, Albert
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Sera PhD, Maria D
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Collins, W Andrew
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Egeland, Byron R
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Gunnar PhD, Megan R
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Sroufe, L Alan
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Yussen, Steve
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Karatekin, Canan
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Gewirtz, Abigail
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
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 24, 24 completions allowed;
Instructor: Zelazo, Philip David
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Carlson, Stephanie M
Description: Student may contact the instructor or department for information.

CPsy 8994 Research Problems in Child Psychology
1-6 credit(s), max credits 24, 24 completions allowed;
Instructor: Koenig, Melissa
Description: Student may contact the instructor or department for information.
Instructor: Mazzocco, Michele M  
Description: Student may contact the instructor or department for information.

**CPsy 8994 Research Problems in Child Psychology**  
1-6 credit(s), max credits 24, 24 completions allowed;  
Instructor: Elison, Jed T.  
Description: Student may contact the instructor or department for information.

**China Executive MBA**

**CHMB 5816 International Residency**  
A-F only, 6 credit(s);  
Instructor: Madzar, Svjetlana  
Description: Student may contact the instructor or department for information.

**Chinese  220 Folwell Hall**

**Chn 1012 Beginning Modern Chinese**  
6 credit(s); 1011 or equiv or instr consent; Credit will not be granted if credit has been received for: CHN 4002;  
Instructor: Li, Chi-Ping  
Description: Student may contact the instructor or department for information.

**Chn 1012 Beginning Modern Chinese**  
6 credit(s); 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), Third Edition. Class time: 7 class hours/week  
Style: 30% Lecture, 70% Discussion.  
Grading: 10% mid exam, 15% final exam, 10% quizzes, 10% written homework, 10% attendance, 10% class participation, 10% laboratory evaluation, 10% other evaluation. Character writing, vocabulary quizzes, tests  
Exam Format: Listening, speaking, reading and writing

**Chn 1016 Accelerated Intermediate Modern Chinese**  
5 credit(s); 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; Credit will not be granted if credit has been received for: CHN 4006;  
Instructor: Stone, Jin YaLiang  
Description: prerequisite: 1012 or 1015 or instructor consent; credit will not be granted if credit received for: 3021 or 3022; 5.0 cr Instructor: Jin Stone As the second part Accelerated Modern Chinese course series, this course is the continuation of Chinese 1015. It is designed for students who are heritage speakers of Chinese and/or who can understand and speak modern Chinese. The purpose of this course is to help students improve their ability in listening, speaking, reading and writing Chinese. It particularly aims to help students develop more sophisticated vocabulary and enhance reading and writing ability in Chinese. As an accelerated course, we will cover the whole of second year Chinese within one semester, and the pace of the course will be approximately one lesson every three days. Students should be ready to take the Chinese LPE and/or take third year Chinese after this course. Text book: Integrated Chinese, Level 2 (Cheng & Tsui Company) Class time: 40% lecture, 50% discussion, 10% testing Work load: 20 pages of reading per week, 5 pages of writing per semester, 6 exam(s), sentence and paragraph translation Grade: 30% Mid-semester Exam, 30% Final exam(s), 15% Quizzes and Tests, 10% Attendance and Class Participation, 10% Homework; 5% Vocab Quizzes; Exam format: Oral interview and reading, writing

**Chn 3022 Intermediate Modern Chinese**  
5 credit(s); 3021 Credit will not be granted if credit has been received for: CHN 4004;  
Instructor: Liu, Jiang  
Description: Student may contact the instructor or department for information.
Chn 3032 Advanced Modern Chinese
4 credit(s); 3031 or equiv or instr consent Credit will not be granted if credit has been received for: CHN 4008;
Instructor: Li, Chi-Ping
Description: Student may contact the instructor or department for information.

Chn 3032 Advanced Modern Chinese
4 credit(s); 3031 or equiv or instr consent Credit will not be granted if credit has been received for: CHN 4008;
Instructor: Wei, Pei-Cheng
Description: Student may contact the instructor or department for information.

Chn 3201 Chinese Calligraphy
2 credit(s);
Instructor: Zhang, Hong
Description: Student may contact the instructor or department for information.

Chn 3202 Intermediate Chinese Calligraphy
2 credit(s);
Instructor: Zhang, Hong
Description: Student may contact the instructor or department for information.

Chn 3290 Chinese Language Teaching Tutorial
S-N only, 1 credit(s), max credits 2;
Instructor: Wang, Ling
Description: Student may contact the instructor or department for information.

Chn 3993 Directed Studies
OPT No Aud, 1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: STAFF
Description: Directed Studies in ALL and Asian languages are restricted to very special conditions, with the particulars
established by the individual teacher upon department approval. Note: Directed Studies cannot be used to fulfill the core
requirements of either the Major or Minor.

Chn 4002 Beginning Modern Chinese
3 credit(s); 4001, grad student Credit will not be granted if credit has been received for: CHN 1012;
Instructor: Li, Chi-Ping
Description: Student may contact the instructor or department for information.

Chn 4002 Beginning Modern Chinese
3 credit(s); 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
time: 7 class hours/week
Style: 30% Lecture, 70% Discussion.
Grading: 10% mid exam, 15% final exam, 10% quizzes, 10% written homework, 10% attendance, 10% class participation,
10% laboratory evaluation, 10% other evaluation. Character writing, vocabulary quizzes, tests
Exam Format: Listening, speaking, reading and writing

Chn 4004 Intermediate Modern Chinese
3 credit(s); 4003, grad student Credit will not be granted if credit has been received for: CHN 3022;
Instructor: Liu, Jiang
Description: Student may contact the instructor or department for information.

Chn 4006 Accelerated Intermediate Modern Chinese
3 credit(s); [[1012 or 1015], grad student] or instr consent; oral/aural skills or other Chinese dialect recommended
credit will not be granted if credit received for: 3021, 3022
Credit will not be granted if credit has been received for:

CHN 1016;
Instructor: Stone, Jin YaLiang
Description: prerequisite: 1012 or 1015 or instructor consent; credit will not be granted if credit received for: 3021 or 3022;
5.0 cr

Instructor: Jin Stone
As the second part Accelerated Modern Chinese course series, this course is the continuation of Chinese 1015. It is designed for students who are heritage speakers of Chinese and/or who can understand and speak modern Chinese. The purpose of this course is to help students improve their ability in listening, speaking, reading and writing Chinese. It particularly aims to help students develop more sophisticated vocabulary and enhance reading and writing ability in Chinese. As an accelerated course, we will cover the whole of second year Chinese within one semester, and the pace of the course will be approximately one lesson every three days. Students should be ready to take the Chinese LPE and/or take third year Chinese after this course.

Text book: Integrated Chinese, Level 2 (Cheng & Tsui Company)

Class time: 40% lecture, 50% discussion, 10% testing
Work load: 20 pages of reading per week, 5 pages of writing per semester, 6 exam(s), sentence and paragraph translation
Grade: 30% Mid-semester Exam, 30% Final exam(s), 15% Quizzes and Tests, 10% Attendance and Class Participation, 10% Homework; 5% Vocab Quizzes; Exam format: Oral interview and reading, writing

Chn 4008 Advanced Modern Chinese
3 credit(s); 4007, grad student
Credit will not be granted if credit has been received for: CHN 3032;
Instructor: Li, Chi-Ping
Description: Student may contact the instructor or department for information.

Chn 4008 Advanced Modern Chinese
3 credit(s); 4007, grad student
Credit will not be granted if credit has been received for: CHN 3032;
Instructor: Wei, Pei-Cheng
Description: Student may contact the instructor or department for information.

Chn 4042 Advanced Readings in Modern Chinese
4 credit(s);
Instructor: Wang, Ling
Description: This course will expose advanced students to various Chinese writings and improve their ability to read Chinese articles, short stories, and essays in the original. We will study Chinese writings on various topics in modern China during the first half of the twentieth century, 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;
Instructor: Zou, Zhen
Description: Prerequisite: 3-4 years of college Chinese or equivalent or instructor consent
Instructor: Zou, Zhen
Among modern Chinese thinkers, Lu Xun has the greatest insight in and is the most critical of traditional Chinese institution, society, and culture. 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 and Hu Shi, another giant in modern China's intellectual history. This will also help students in understanding other important writers of the New Cultural Movement. The works we will study includes Lu Xun and Hu Shi's insights in Chinese people's characteristics, the problems of the institution, age and gender oppression, 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 and video.
Work load: 10-15 pages of reading per week, 5 pages of writing per semester, 2 exams, reading presentation, and a final essay.
Grade: 15% class participation, 15% quizzes, 10% reading presentation, 20% midterm exam, 20% final exam, 20% final essay.
Exam format: Short answers and essay questions.
Course URL: http://www.all.umn.edu/chinese_language

Chn 5393 Directed Study
1-5 credit(s), max credits 18, 18 completions allowed;
Instructor: STAFF
Description: Directed Studies in ALL and Asian languages are restricted to very special conditions, with the particulars
Civil Engineering 122 Civil Engineering Building

CE 5 Refresher Course for Civil Engineers
S-N only, 0 credit(s);
Instructor: Labuz, Joseph F
Description: Student may contact the instructor or department for information.

CE 3101 Computer Applications in Civil Engineering I
A-F only, 3 credit(s);
Instructor: Gonella, Stefano
Description: Student may contact the instructor or department for information.

CE 3102 Uncertainty and Decision Analysis in Civil Engineering
A-F only, 3 credit(s);
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);
Instructor: Johnson, Ann M
Description: Introduction to AutoCAD and Civil 3D software. Students complete all tasks to design a two-lane roadway and simple subdivision using civil engineering design software, including topography, plan/profile, contours, and cross sections.

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

CE 3301 Soil Mechanics I
A-F only, 3 credit(s);
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);
Instructor: Stolarski, Henryk Konstanty
Description: Analysis of determinate/indeterminate trusses and frames. Computation of displacements by virtual work principle. Application of energy, slope-deflection, and moment distribution methods to indeterminate structures. Influence lines. Design considerations.

CE 3402W Civil Engineering Materials
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Rendahl PhD, Merry
Description: Student may contact the instructor or department for information.

CE 3501 Environmental Engineering
A-F only, 3 credit(s); Meets CLE req of Environment
Instructor: Chun, Chanlan
Description: Student may contact the instructor or department for information.
CE 3502 Fluid Mechanics
A-F only, 4 credit(s);
Instructor: Guala, Michele
Description: Student may contact the instructor or department for information.

CE 3502 Fluid Mechanics
A-F only, 4 credit(s);
Instructor: Guala, Michele
Description: Student may contact the instructor or department for information.

CE 4000H Honors Research Seminar
A-F only, 1 credit(s), max credits 2; Upper div CECredit will not be granted if credit has been received for: GEOE 4000H;
Instructor: Barnes, Randal J
Description: Student may contact the instructor or department for information.

CE 4011 Special Topics: Earth Resources Engineering
A-F only, 3 credit(s), max credits 12, 3 completions allowed;
Instructor: Detournay, Emmanuel Michel
Description: Student may contact the instructor or department for information.

CE 4094H Senior Honors Thesis
A-F only, 2 credit(s); Upper div CECredit will not be granted if credit has been received for: GEOE 4094H;
Instructor: Barnes, Randal J
Description: Student may contact the instructor or department for information.

CE 4102W Capstone Design
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Rendahl PhD, Merry
Description: Student may contact the instructor or department for information.

CE 4102W Capstone Design
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Marasteanu, Mihai
Description: Student may contact the instructor or department for information.

CE 4121 Computer Applications in Civil Engineering II
A-F only, 3 credit(s);
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;
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;
Instructor: Labuz, Joseph F
Description: Student may contact the instructor or department for information.

CE 4201 Highway Design
A-F only, 3 credit(s);
Instructor: Johnson, Ann M
Description: Student may contact the instructor or department for information.

CE 4211 Traffic Engineering
3 credit(s);
Instructor: Davis, Gary Arnold
Description: Student may contact the instructor or department for information.

CE 4301 Soil Mechanics II
A-F only, 3 credit(s); [CE 4301 or GeoE 3301], upper div CSE] 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); [4351, GeoE 4351, [upper div CSE or grad student]] or instr consent Credit will not be granted if credit has been received for: GeoE 4352;
Instructor: Strack PhD, 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);
Instructor: French, Catherine Ellen
Description: Student may contact the instructor or department for information.

CE 4411 Matrix Structural Analysis
A-F only, 3 credit(s);
Instructor: Ballarini PhD, Roberto
Description: Student may contact the instructor or department for information.

CE 4412 Reinforced Concrete Design II
A-F only, 3 credit(s);
Instructor: Schultz, Arturo Ernest
Description: Student may contact the instructor or department for information.

CE 4501 Hydrologic Design
A-F only, 4 credit(s);
Instructor: Voller, Vaughan Richard
Description: Student may contact the instructor or department for information.

CE 4502 Water and Wastewater Treatment
A-F only, 3 credit(s);
Instructor: Martenson, Dennis Raymond
Description: Student may contact the instructor or department for information.

CE 4561 Solid Hazardous Wastes
3 credit(s);
Instructor: Surdo, Erin Melelis
Description: Student may contact the instructor or department for information.

CE 4562 Environmental Remediation Technology
A-F only, 3 credit(s);
Instructor: Hozalski PhD, Raymond M
Description: The objective of this course is to discuss the theory and application of current and emerging technologies used to remediate contaminated soil and groundwater environments. Specific course topics include: site characterization, pump and treat systems, soil vapor extraction, air sparging, in situ bioremediation, and in situ reactive walls. The target audience for the course includes upper level undergraduate students and graduate students. The coursework will involve regular reading and homework assignments, two midterm exams during the semester, a cumulative final exam, and a group project. The textbook is Remediation Engineering Design Concepts (1997) by S. Suthersan. Information in the textbook is supplemented with research papers from the technical literature and material from other books on the subject. In addition, outside speakers from local and national consulting firms are brought in to discuss case studies from their site remediation experience.
Style: 70% Lecture, 20% Discussion. Interactive problem solving
Grading: 20% mid exam, 30% final exam, 20% special projects, 10% problem solving, 20% other evaluation. Midsemester exam II
Exam Format: Short answer and problem solving.
CE 5211 Traffic Engineering  
3 credit(s);  
Instructor: Davis, Gary Arnold  
Description: Student may contact the instructor or department for information.

CE 5511 Urban Hydrology and Land Development  
A-F only, 4 credit(s);  
Instructor: Gulliver, John Stephen  
Description: Student may contact the instructor or department for information.

CE 5572 Design for Sustainable Development: Create I  
A-F only, 2 credit(s), max credits 4;  
Instructor: Rose, Fred Anthony  
Description: Social-environmental entrepreneurship course for students with existing ideas for for-profit or non-profit venture solutions.

CE 8022 Numerical Methods for Free and Moving Boundary Problems  
A-F only, 3 credit(s);  
Instructor: Voller, Vaughan Richard  
Description: Student may contact the instructor or department for information.

CE 8200 Seminar: Transportation  
S-N only, 1 credit(s), max credits 3, 3 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 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 freeway expansion, urban growth boundary, rail investments, value pricing, etc. These policies would impact both transportation and land use because the latter two are inextricably linked. The construction of a new 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 travel patterns of residents in 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. This course will cover key theories and practices, research methodologies and findings, traditional and emerging policy instruments, and techniques for planning. My goal 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 underlying land use and transportation interactions; - spatial evolution of cities related to transportation infrastructure; - empirical impacts of transportation infrastructure on land 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);  
Instructor: Davis, Gary Arnold  
Description: Student may contact the instructor or department for information.

CE 8216 Urban Traffic Operations  
3 credit(s);  
Instructor: Liu, Henry  
Description: Student may contact the instructor or department for information.
CE 8300 Seminar: Geomechanics
S-N only, 1-3 credit(s), max credits 4, 4 completions allowed; Credit will not be granted if credit has been received for: GEOE 8300;
Instructor: Mogilevskaya, Sofia
Description: Student may contact the instructor or department for information.

CE 8351 Analytical modeling in Civil Engineering
A-F only, 3 credit(s);
Instructor: Strack PhD, Otto D
Description: Student may contact the instructor or department for information.

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

CE 8401 Fundamentals of Finite Element Method
A-F only, 3 credit(s);
Instructor: Schillinger, Dominik
Description: Student may contact the instructor or department for information.

CE 8413 Fracture and Scaling
A-F only, 3 credit(s);
Instructor: Le, Jialiang
Description: Student may contact the instructor or department for information.

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

CE 8490 Special Topics: Analytical modeling in Civil Engineering
A-F only, 1-4 credit(s), max credits 8;
Instructor: Strack PhD, Otto D
Description: Student may contact the instructor or department for information.

CE 8500 Environmental Seminar
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Novak, Paige J
Description: Student may contact the instructor or department for information.

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

CE 8507 Advanced Methods in Hydrology
A-F only, 4 credit(s);
Instructor: Foufoula, Efi
Description: Student may contact the instructor or department for information.

Classical Civilization 245 Nicholson Hall

CICv 3993 Directed Studies in Classical Civilization
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CICv 3994 Directed Research in Classical Civilization
CNES 1001 World of the Bible: Religions, Empires, and Discourses of Power
3 credit(s); credit will not be granted if credit received for: CLAS 1051; Credit will not be granted if credit has been received for: RELS 1003; Meets CLE req of Arts/Humanities
Instructor: Barnes, William Hamilton
Description: Where did the Bible come from? Who were the ancient Israelites? How did the great civilizations of the ancient world influence the Bible? Integrating a cross-disciplinary spectrum of religion, history, archeology, and literature, students in this class will discover the contemporary contexts for the ancient literary anthologies now known as the Hebrew Bible and the New Testament. Topics will include the development of monotheism, kingship, warfare, divination, prophecy, law, poetry, mythology, and daily life. Students will encounter a variety of famous ancient Near Eastern texts, including the Epic of Gilgamesh, the Laws of Hammurabi, and the Dead Sea Scrolls. Since we will engage in secular study only, analytically examining all relevant religious texts and traditions, students are required to retain an open mind and the willingness to read and discuss the Bible in a new way.

CNES 1003 World of Rome
3 credit(s); Meets CLE req of Historical Perspectives
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% mid exam, 40% final exam, 30% quizzes.

CNES 1042 Greek and Roman Mythology
4 credit(s); Credit will not be granted if credit has been received for: CNES 1042H; Meets CLE req of Arts/Humanities
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); Credit will not be granted if credit has been received for: CNES 1042H; Meets CLE req of Arts/Humanities  
Instructor: Fanning, Eric William  
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. Introduction to stories/study of Greek/Roman mythology.  
Style: Online  
Grading: See attached syllabus  
Exam Format: Supervised, in-person, (not online) exams.

CNES 1042H Honors Course: Greek and Roman Mythology  
A-F only, 4 credit(s); Honors or instr consent Credit will not be granted if credit has been received for: CNES 1042; Meets CLE req of Arts/Humanities  
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);  
Instructor: Willey, Andrew James  
Description: This is a fully online section offered online through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit “Class URL” for ODL policies, including fee and financial aid restrictions. Although only used in a specialized, technical environment, medical terminology is nevertheless a vocabulary in its own right, with its own history and rules of morphology (word-formation). This course emphasizes linguistics and etymology. Rather than attempt to impart all the specialized vocabulary necessary for the study of, e.g. anatomy or physiology, 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.  
Style: Online  
Grading: See attached syllabus  
Exam Format: Supervised, in-person (not online) exams.

CNES 1903 Freshman Seminar: Famous Trials in History  
3 credit(s); Meets CLE req of Civic Life and Ethics  
Instructor: Sheets, George A  
Description: Student may contact the instructor or department for information.

CNES 3042 Myths, Legends, and Literature of the Ancient Near East and Egypt  
3 credit(s); Meets CLE req of Arts/Humanities  
Instructor: von Dassow, Eva  
Description: Student may contact the instructor or department for information.

CNES 3073 Roman Religion and Early Christianity  
3 credit(s);  
Instructor: Nicholson, Oliver  
Description: Religion in the Roman world performed a function very different from that which it performs in contemporary America. Worship of the public Gods was the communal focus of Roman communities, and their protection against the disasters which might be brought upon them by the forces of nature. This course will consider the practices of Roman public religion, and the myths associated with them, and assess their peculiar strengths. It will also be concerned with the practices of groups of individuals concerned with particular divinities, whether they are principally religious (such as the worship of the gods Mithras or Isis) or philosophical (whether highbrow or middlebrow). Christianity was peculiar in that it was the only Greco-Roman religious practice which cut its adherents off from the performance of the customary public cults; that is why it was persecuted. The second half of the course will consider themes in the growth of primitive Christianity, beginning in the 2nd century A.D., and look at the way it came to replace the traditional public cults as the dominant ideology and practice in the Roman world. The reading will be, so far as possible, in English translations of
Greek, Latin, and Syriac texts written in the Roman period, though important modern scholarship will also be considered. 

**Style:** All lecture and discussion. No public sacrifices! 

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

**Exam Format:** GOBBETS, i.e. passages from ancient authors set for comment - explanation in class.

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**CNES 3162 Roman Art and Archaeology**

3 credit(s); Credit will not be granted if credit has been received for: ARTH 3162; Meets CLE req of Historical Perspectives 

**Instructor:** Canepa, Matthew P. 

**Description:** This course will provide an introduction to the history of Roman art and archaeology from the formation of the city-state of Rome under Etruscan domination, to the Roman Empire under Augustus, to the transformation of Roman visual culture in late antiquity as the Roman Empire became Christian under Constantine the Great. No background in the time period or discipline is expected and therefore this class will also serve as an introduction to interdisciplinary study of art history and the classical world. A number of art historical methodologies will be introduced in order to not only give the student a useful background in art history but to give him or her the tools to think as historians and incorporate related visual and textual evidence meaningfully into their writing. 

**Style:** 80% Lecture, 10% Discussion, 10% Field Trips. 

**Grading:** Two midterms and a final (25% each); short papers (20%); attendance (5%). 

**Exam Format:** Standard Art History exam: Slide identification, vocabulary and short essay.

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**CNES 3202 Prophecy in Ancient Israel**

3 credit(s); 1201 or 3201 or RELS 1001 Credit will not be granted if credit has been received for: RELS 3202; 

**Instructor:** Levinson, Hanne Loeland 

**Description:** What is prophecy? What is a prophet? What was the prophetic message, to whom did the prophet speak, and what did he/she convey? What was the prophet’s social, political and religious role? This course seeks to understand prophecy in ancient Israel and the prophetic literature of the Hebrew Bible/Old Testament within the larger context of the ancient Near East. The course will provide an introduction to prophetic literature, to the different prophetic genres, to the formation of the prophetic books, and to the study of imagery and metaphor. One fascinating feature of the prophetic literature of the Hebrew Bible is the way it is reused in later art, literature, and music; some examples of this phenomenon will be discussed in the course as well. We will be reading biblical texts from an academic point of view and the main goal of the course is to learn how to read closely, to think critically about the meaning of a text, and to differentiate between what the texts say and what later times have understood the texts to say. 

**Grading:** 40% mid exam, 25% final exam, 25% reports/papers, 10% other evaluation. Smaller assignments 10%

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**CNES 3202 Prophecy in Ancient Israel**

3 credit(s); 1201 or 3201 or RELS 1001 Credit will not be granted if credit has been received for: RELS 3202; 

**Instructor:** Barnes, William Hamilton 

**Description:** What is prophecy? What is a prophet? What was the prophetic message, to whom did the prophet speak, and what did he/she convey? What was the prophet’s social, political and religious role? This course seeks to understand prophecy in ancient Israel and the prophetic literature of the Hebrew Bible/Old Testament within the larger context of the ancient Near East. The course will provide an introduction to prophetic literature, to the different prophetic genres, to the formation of the prophetic books, and to the study of imagery and metaphor. One fascinating feature of the prophetic literature of the Hebrew Bible is the way it is reused in later art, literature, and music; some examples of this phenomenon will be discussed in the course as well. We will be reading biblical texts from an academic point of view and the main goal of the course is to learn how to read closely, to think critically about the meaning of a text, and to differentiate between what the texts say and what later times have understood the texts to say. 

**Grading:** 40% mid exam, 25% final exam, 25% reports/papers, 10% other evaluation. Smaller assignments 10%

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**CNES 3950 Aspects of Ancient Culture: Women, Gender, and the Hebrew Bible**

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

**Instructor:** Levinson, Hanne Loeland 

**Description:** "And the rib that the Lord God had taken from the man he made into a woman and brought her to the man" (Gen 2:22). Few texts have been more influential for the western world?is thinking about men, women, gender, and sexuality than the creation stories of the Hebrew Bible/Old Testament. Yet there is a considerable scholarly debate on how to best understand these texts. The goal of this course is to familiarize you with this debate. We will examine questions such as: How is man, woman, gender, and sexuality portrayed in the Hebrew Bible? What do we know about the social and religious roles and status of women in ancient Israel? Is the God of the Hebrew Bible presented as a gendered God? What does it mean to read the Bible from a gender perspective, and what is feminist hermeneutics? We will be reading biblical texts from an academic point of view and the main goal of the course is to learn how to read closely, to think critically about the meaning of a text, and to differentiate between what the texts say and what later times have understood the texts to say. 

**Grading:** 30% mid exam, 30% final exam, 40% reports/papers.
CNES 3951W Major Project
4 credit(s); Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CNES 3993 Directed Studies
1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: Nicholson, Oliver
Description: Student may contact the instructor or department for information.

CNES 5051 Before Herodotus: History and Historiography of Mesopotamia and the Ancient Near East
A-F only, 3 credit(s); Previous coursework in Ancient Near Eastern history recommended
Credit will not be granted if credit has been received for: HIST 5051;
Instructor: von Dassow, Eva
Description: Three millennia elapsed from the invention of writing in Egypt and Mesopotamia, toward 3100 BCE, until the writing of native histories of these two lands in Greek, by Manetho of Egypt and Berossos of Babylon -- both Hellenized priests working under the new Macedonian rulers who divided the legacy of Alexander the Great. During those three millennia, several genres of literature developed in Egypt, Mesopotamia, and neighboring regions, which, while not history in the Herodotean sense, purport to record, narrate, or explain the past. Such "historiographic" writings are quite diverse, for they were the products of many distinct peoples in different periods, and they were created for various purposes under diverse circumstances. This seminar focusses on sources and methods in ancient Near Eastern history. In this course, we study the histories of the various states and peoples of the ancient Near East through the lenses supplied by their own representations of the past, and at the same time we investigate how modern historians construct knowledge of the past using these and other sources and evidence. Secondary emphases will include the development of historical writing in biblical Israel and Judah, and the relations between ancient Near Eastern historical or historiographic literature and the works of Greek historians such as Herodotus. The class will read some of the most important primary sources for the history of the ancient Near East, in translation, and practice applying historical methods in studying these sources. In order to develop critical understanding of modern histories of the ancient Near East, as well as to explore different methods and approaches to the study of the past, students will read secondary literature which engages in discussion of theoretical issues in the study of ancient history.
Style: 40% Lecture, 45% Discussion, 10% Student Presentation, 5% Demonstration.
Grading: 30% reports/papers, 50% written homework, 5% in-class presentation, 15% class participation.

CNES 5513W Scripture and Interpretation in Israelite Religion and Judaism
A-F only, 3 credit(s); At least one upper level course (3xxx or higher) in academic biblical or religious studies
Credit will not be granted if credit has been received for: JWST 5513W; Meets CLE req of Writing Intensive
Instructor: Levinson PhD, Bernard M.
Description: This seminar investigates the idea of divine revelation and its impact upon religion and literature. It shows how the history of the Bible’s creation, transmission and interpretation in Judaism can help us think critically about the role of the idea of revelation in the history of religious traditions. Just what is revelation? What happens when a literary text is accorded the status of revelation? How does the belief that a text is revealed affect the way it is read within the community for which it constitutes revelation? These are the questions we bring to the particular case of Judaism's scriptural canon and the history of its interpretation. It will place particular emphasis upon the reinterpretation and transformation of authoritative texts within the Hebrew Bible even before the closure of the canon. Chronologically, it covers developments from about the 5th century B.C.E. until about the 13th century C.E. This period begins prior to the formation of the present version of the Bible, witnesses its compilation and the origins of Rabbinic Judaism and Christianity, and ends with the solidification of those medieval traditions of biblical commentary which still shape modern Jewish understandings of Scripture. That contemporary literary and legal studies have begun to address the issues of canon, the history of authorship, textual authority, canon transformation, intertextuality, and the nature of interpretation, extends the methodological and theoretical implications of the material studied.
Style: 25% Lecture, 75% Discussion.
Grading: 100% reports/papers.

CNES 5993 Directed Studies
1-4 credit(s), max credits 12, 4 completions allowed;
Instructor: Sellew, Philip
Description: Student may contact the instructor or department for information.

CNES 8513 Scripture and Interpretation
A-F only, 3 credit(s); Grad student
Credit will not be granted if credit has been received for: JWST 5513W;
Instructor: Levinson PhD, Bernard M.
Description: This seminar investigates the idea of divine revelation and its impact upon religion and literature. It shows how
the history of the Bible’s creation, transmission and interpretation in Judaism can help us think critically about the role of the idea of revelation in the history of religious traditions. Just what is revelation? What happens when a literary text is accorded the status of revelation? How does the belief that a text is revealed affect the way it is read within the community for which it constitutes revelation? These are the questions we bring to the particular case of Judaism’s scriptural canon and the history of its interpretation. It will place particular emphasis upon the reinterpretation and transformation of authoritative texts within the Hebrew Bible even before the closure of the canon. Chronologically, it covers developments from about the 5th century B.C.E. until about the 13th century C.E. This period begins prior to the formation of the present version of the Bible, witnesses its compilation and the origins of Rabbinic Judaism and Christianity, and ends with the solidification of those medieval traditions of biblical commentary which still shape modern Jewish understanding of Scripture. That contemporary literary and legal studies have begun to address the issues of canon, the history of authorship, textual authority, canon transformation, intertextuality, and the nature of interpretation, extends the methodological and theoretical implications of the material studied.

Style: 25% Lecture, 75% Discussion.
Grading: 100% reports/papers.

Clinical Laboratory Sciences Program  15-194 Phillips Wangensteen Bldg (MMC 711)

CLSP 1010 Orientation in Clinical Laboratory Sciences
   S-N only, 1 credit(s);
   Instructor: Conway-Klaassen, Janice Marjorie
   Description: Student may contact the instructor or department for information.

CLSP 4092 Honors Program: Laboratory Methods
   3 credit(s);
   Instructor: Conway-Klaassen, Janice Marjorie
   Description: Student may contact the instructor or department for information.

CLSP 4101 Diagnostic Microbiology II
   A-F only, 2 credit(s);
   Instructor: Ruskin, Lorna Marie
   Description: Student may contact the instructor or department for information.

CLSP 4202 Hematology II
   A-F only, 2 credit(s);
   Instructor: Wiesner, Stephen Michael
   Description: Student may contact the instructor or department for information.

CLSP 4203 Hemostasis
   A-F only, 1 credit(s);
   Instructor: Swinehart, Cheryl D
   Description: Lecture and laboratory course covering hemostasis. Theory of hemostasis and laboratory tests of plasma and platelets will be discussed. Target audience: Senior medical technology students.
   Style: 66% Lecture, 33% Laboratory.
   Exam Format: multiple choice

CLSP 4301 Urinalysis
   A-F only, 1 credit(s);
   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);
   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);
   Instructor: Spannaus-Martin, Donna J
   Description: Student may contact the instructor or department for information.
CLSP 4402 Molecular Diagnostics
A-F only, 2 credit(s), max credits 4;
Instructor: Romain, Charlotte Ann
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);
Instructor: George, Joanna L
Description: Student may contact the instructor or department for information.

CLSP 4701 Applied Diagnostic Microbiology
S-N only, 2 credit(s);
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);
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);
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 chemical analysis 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);
Instructor: Brennecke, Patricia Johnson
Description: Student may contact the instructor or department for information.

Clinical Physiology and Movement Science

CPMS 5201 Colloquium in Clinical Physiology and Movement Science
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Anderson, John Harold
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; Grad cog sci minor or instr consent Credit will not be granted if credit has been received for: PHIL 8640;
Instructor: Savage, C Wade
Description: Student may contact the instructor or department for information.
CgSc 8410 Perspectives in Learning, Perception, and Cognition
S-N only, 2 credit(s), max credits 24, 12 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 http://www.cogsci.umn.edu/calendar/colloquia.htm), and actively participate in discussion sessions. Students will submit a five to six page paper at the end of the semester in lieu of a final examination.

College of Food, Agri & Natural Resource Sciences

CFAN 1201 Discovering Majors and Careers
A-F only, 1 credit(s);
Instructor: Hruska, Elizabeth Suzanne
Description: Are you anxious or stressed about picking a major or finding a career you'll enjoy? Would you like to actively investigate your major and career options in more detail and explore how they relate to you? Discovering Majors and Careers Course guides you in learning more about your unique strengths, values, interests, skills, and personality. Then we explore how your unique characteristics relate to the world of majors at the U, and how you can use your major to find a career you'll enjoy. We'll also help you to discover how internships, community service, work experience, travel and networking (both in-person and social media) can positively impact your future success. The goal of the class is to help you be proactive about the future and learn strategies that will help with a lifetime of decision making.
Style: 30% Lecture, 5% Film/Video, 30% Discussion, 30% Small Group Activities, 5% Guest Speakers.

CFAN 1501 Biotechnology, People, and the Environment
A-F only, 3 credit(s);Meets CLE req of Technology and Society
Instructor: Palmer PhD, Melissa L
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 TECHNOLOGY AND SOCIETY theme of the Council on Liberal Education. Along with readings, CFAN 1501 requires: 1) internet-based learning activities, 2) a personal biotechnology journal, and 3) a public perception survey on biotechnology. CFAN is organized into four blocks. The course begins with a brief overview/introduction to genetic engineering technology, followed by the biotechnology of plants (including genetically modified foods and crops), biotechnology of microbes (including bioremediation, biocontrol, and food microbiology), and the biotechnology of animals and medicine (including biopharmaceuticals, genetic screening, genome sequencing, animal cloning, bioterrorism, and genetic therapy).
Style: 65% Lecture, 10% Discussion, 15% Small Group Activities, 5% Demonstration, 5% Guest Speakers.
Grading: 40% mid exam, 20% final exam, 15% special projects, 5% quizzes, 20% journal. There are generally three exams during the semester and each is worth 20%.
Exam Format: Exams are generally 25% multiple choice; 25% matching; 25% short answer; 25% essay question.

CFAN 1902 Topics: Freshman Seminar: American Indian Ways of Knowing the Environment
3 credit(s); Meets CLE req of Diversity and Soc Justice US
Instructor: Bellcourt EdD, Mark A
Description: Student may contact the instructor or department for information.

**CFAN 2201 Secure & Succeed in Internships**
A-F only, 2 credit(s);
Instructor: Nagle, Heather
Description: How serious are you about a summer internship? Career and Internship Services is offering a NEW career course just for you. Students who REALLY want an internship or equivalent experience that are Junior status or below should enroll in CFAN 2201. This is a 2 credit class that will help students explore and understand a variety of industries and careers and internships available to a variety of majors. In addition to in-class learning, you will also complete a required summer internship (or experiential learning equivalent) to compliment your learning experience and to complete the course. The first phase of the course includes self-assessment, search strategies and resources, resume/cover letter refinement, interviewing, networking methods, and career and employer research. At the end of the semester, as students identify their internship site, they are assisted with goal setting, developing a contract on GoldPASS, and coached on workplace etiquette. During the internship, students complete a series of quick weekly poll questions, 3 on-line assignments to encourage reflection on goals and learning including updating their resume with the summer experience and preparing an interview explaining the skills they learned over the summer. This is a perfect way to set yourself apart and prepare yourself for success after graduation, with individual support from a career coach.
Style: 30% Lecture, 20% Discussion, 30% Small Group Activities, 10% Guest Speakers, 10% Web Based.

**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 3001 Pests and Crop Protection**
A-F only, 3 credit(s);
Instructor: Steffenson, Brian Joel
Description: Student may contact the instructor or department for information.

**CFAN 3096 Making the Most of your Internship**
A-F only, 1 credit(s);
Instructor: Newberg, Sara Nagel
Description: Student may contact the instructor or department for information.

**CFAN 3201 Career and Internship Preparation**
A-F only, 1 credit(s);
Instructor: Kubak, Maggie
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

**CFAN 3201 Career and Internship Preparation**
A-F only, 1 credit(s);
Instructor: Newberg, Sara Nagel
Description: Want to be sure your ready to put your best foot forward when searching for jobs and internships? This 1 credit course is ideal for students in any major seeking internships and/or full time work. This course covers topics that will prepare you for your job/internship search including communicating your skills, resume writing, interviewing, job searching and salary negotiation.
Style: 50% Lecture, 10% Discussion, 30% Small Group Activities, 10% Guest Speakers. Class Activities
Grading: 25% reports/papers, 50% special projects, 10% class participation, 15% other evaluation. inventories & class activities

**CFAN 3201 Career and Internship Preparation**
A-F only, 1 credit(s);
Instructor: Hanson, Matthew R
Description: This class is ideal for undergraduate students who are confident they're in the right major and want to begin
seeking jobs and internships related to their career goals. Career and Internship Preparation will walk you through the internship or job search process step by step to help you feel more confident in your ability to secure positions in your industry area. Through in-class presentations and activities, you will identify your top skills/strengths and learn how to market these qualities through cover letters, resumes, portfolios and job interviews. Additionally, you will learn the best resources and strategies for finding job openings in your field. Students will also have several opportunities to get advice and insight from industry professionals. Note: If you are still uncertain about your career plans or questioning your major, CFAN 1201, Discovering Majors and Careers, may be a more appropriate course.

**Style:** 20% Lecture, 30% Discussion, 30% Small Group Activities, 20% Demonstration.

**Grading:** 25% reports/papers, 50% special projects, 10% class participation, 15% other evaluation. Inventories and Class Activities

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**CFAN 3201 Career and Internship Preparation**

A-F only, 1 credit(s);

**Instructor:** Giefer, Christine M

**Description:** This course is designed to introduce students to the career development journey. By taking a proactive approach to identifying and achieving their career goals, students will gain confidence in the job-search world and be able to position themselves to succeed. This course will focus on: -Self-assessment -Skills, values and goal setting -Job searching techniques -Resume writing, cover letters, portfolios and other job-search tools -Networking -Interviewing -Professionism

**CFAN 3480 Topics in CFANS: Sust Dev in Uganda: Entrepreneurial Solutions**

3 credit(s), max credits 8;

**Instructor:** Rose, Fred Anthony

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

**CFAN 3480 Topics in CFANS: Grad & Prof School: Success Strategies for Prep, Adm**

1 credit(s), max credits 8;

**Instructor:** Whyte, Patricia Jones

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

**CFAN 4801H Honors Thesis**

A-F only, 3 credit(s);

**Instructor:** Nelson, Kristen C.

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

**CFAN 4801H Honors Thesis**

A-F only, 3 credit(s);

**Instructor:** Pereira PhD, Mark A

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

**CFAN 4801H Honors Thesis**

A-F only, 3 credit(s);

**Instructor:** Reicks, Marla M

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

**CFAN 4801H Honors Thesis**

A-F only, 3 credit(s);

**Instructor:** Martinson, Krishona Lynn

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

**CFAN 4801H Honors Thesis**

A-F only, 3 credit(s);

**Instructor:** Labuza PhD, Ted Peter

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

**CFAN 4801H Honors Thesis**

A-F only, 3 credit(s);

**Instructor:** Smith, Chery

**Description:** Student may contact the instructor or department for information.
CFAN 4801H Honors Thesis
A-F only, 3 credit(s);
Instructor: Simons, Andrew M.
Description: Student may contact the instructor or department for information.

CFAN 4801H Honors Thesis
A-F only, 3 credit(s);
Instructor: Mykerezi, Elton
Description: Student may contact the instructor or department for information.

CFAN 4801H Honors Thesis
A-F only, 3 credit(s);
Instructor: Schoenfuss PhD, Tonya C
Description: Student may contact the instructor or department for information.

CFAN 5201 Career and Job Search Preparation for Graduate Students
S-N only, 1 credit(s);
Instructor: Okstad, Brian Clay
Description: This class is ideal for graduate students, from any area of study, interested in non-academic careers. Preparation is the focus of this class; though it will be useful to any graduate student, it will be most valuable if taken before students' last semester. Career and Job Search Preparation for Graduate Students will help you identify your top skills/strengths and learn how to market these qualities through cover letters, resumes, curriculum vitae (CV) and job interviews. Through this course you will also learn how to research employers to determine their fit for your unique skills and personality. You will also learn how to network effectively in your industry to identify job openings and to negotiate once you have received a job offer. Note: Course meets 11 times over 15 weeks.

CFAN 5480 Topics in CFANS: Sust Dev in Uganda: Entrepreneurial Solutions
3 credit(s), max credits 8;
Instructor: Rose, Fred Anthony
Description: Student may contact the instructor or department for information.

College of Liberal Arts 49 Johnston Hall

CLA 1002 CLA First-Year Experience II
S-N only, 1 credit(s); CLA Credit will not be granted if credit has been received for: CLA 1002H;
Instructor: Spangle, Paul J
Description: Student may contact the instructor or department for information.

CLA 1007 CLA First-Year Experience: Independent Study
S-N only, 1 credit(s), max credits 2;
Instructor: Spangle, Paul J
Description: Student may contact the instructor or department for information.

CLA 1011 CLA First-Year Experience Abroad: Service Project in Costa Rica
A-F only, 2 credit(s);
Instructor: Spangle, Paul J
Description: Student may contact the instructor or department for information.

CLA 2005 Introduction to Liberal Education and Responsible Citizenship
A-F only, 3 credit(s);
Instructor: Williams, Andrew L
Description: Despite the fact that we live in an age of science, technology, globalization, and unprecedented economic affluence, widening poverty, hunger, homelessness and other forms of human displacement, violence, environmental degradation, and diseases such as AIDS continue to ravage millions around the globe. These challenges push many of us to reflect on our responsibility to address social inequality and human suffering. Do individuals have a social and/or ethical responsibility to help others who are less fortunate and/or in distress? Do public universities such as the University of Minnesota have an obligation to help address social problems in the state of Minnesota and beyond? If so, how does an individual or institution respond to these challenges in a manner that is thoughtful, ethical, and effective? If not, what might be the social, economic, and psychological costs of modern inequalities not being addressed in a meaningful and durable fashion? This course is designed to provide students a space and process to consider what can and should be done to
bring a reasonable opportunity for survival within the grasp of the deprived masses in our affluent world. The current array of national and global social problems also raises important and complex questions about the fundamental social, political, and economic rights of citizens. For example, if possible, should we establish and enforce a set of universal human rights that apply across national boundaries? Should every person have the right to health care, housing, clean water, and education? These are among the important academic, ethical, and policy questions that will be addressed in this interdisciplinary course which critically examines the complex relationships between a range of important social, economic, and political issues impacting the world, our nation, and the Twin Cities. Community engagement and service learning are central dimensions of this class. More specifically, all students will complete a minimum of 20 hours of service learning work in a setting approved by the instructor and the Community Service Learning Center. The service learning component of the course allows participants to explore classroom concepts in the real world while developing valuable leadership, intercultural, and other professional competencies. Service learning is a way to move toward critical thinking, self-directed experiential learning, and testing theory in action. Through firsthand community engagement experiences, students will critically interrogate how we interpret the social realities we enter through service, how these meanings are talked about, and how they are negotiated among people who have unequal power relationships. The work and experience of the course will help students to develop a critical understanding of the limits and possibilities of service learning, charity, development, and social justice approaches to addressing social problems.

**Style:** 33% Lecture, 66% Discussion. Students will complete a minimum of 20 hours of service learning outside of the regular class meeting times.

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### College of Science and Engineering 106 Lind Hall

**CSE 1 Fundamentals of Engineering Review (E.I.T. Refresher)**
- **S-N only, 0 credit(s);**
- **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 Class format is as a web conference meeting three hours per week for ten weeks. Class sessions are scheduled to coincide with the twice-annual Fundamentals of Engineering exam cycle. Reference class website for more information.
- **Style:** 75% Lecture, 25% Discussion.
- **Grading:** 100% successful completion of the FE exam
- **Exam Format:** National Fundamentals of Engineering exam. Multiple choice.

**CSE 1002 Project-based Inquiry: High-Altitude Ballooning**
- **A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;**
- **Instructor:** Flaten, James Alfred
- **Description:** Student may contact the instructor or department for information.

**CSE 1101 Environmental Issues and Solutions**
- **4 credit(s); Meets CLE req of Environment; meets CLE req of Physical Sciences**
- **Instructor:** Wabner, Kathy A
- **Description:**

**CSE 1101 Environmental Issues and Solutions**
- **4 credit(s); Meets CLE req of Environment; meets CLE req of Physical Sciences**
- **Instructor:** Hondzo, Miki
- **Description:**

**CSE 1101 Environmental Issues and Solutions**
- **4 credit(s); Meets CLE req of Environment; meets CLE req of Physical Sciences**
- **Instructor:** Hondzo, Miki
- **Description:** This course will address the behavior of natural systems, human impact on the environment, how we are trying to meet the challenges of supplying the population with water, energy, food etc. while trying to minimize negative impacts. This class meets two liberal education requirements (Physical Science with Lab Core and Environment Theme). The Physical Science with Lab Core is satisfied through analysis of environmental issues, such as pollution, limited resources, and population growth. The hands-on laboratory component reinforces the lecture and requires hypothesis testing, setting up experiments, making physical, chemical and biological measurements, analyzing and interpreting the data, graphing results, and writing laboratory reports. An emphasis on how sustainable solutions to our environmental problems must not only be based on sound science, but also be consistent with our values and ethics. These topics are used to satisfy the Environmental Theme. Part of being a citizen of our world is understanding how human activities
(ranging from daily individual to societal choices) impact the environment and the species (including humans) that depend on environmental resources for survival. Minimizing our impacts also requires an understanding of the drivers of environmental processes. Liberal education requirements such as CSE 1101 are designed to provide such knowledge to make students engaged public citizens.

CSE 1411 Exploring Careers in Science and Engineering
A-F only, 1 credit(s), max credits 2;
**Instructor:** Duffy, Amanda Jo
**Description:** This course is designed for freshman and sophomores who want to explore major and career options within science and engineering. Assess your interests, values, skills, strengths, and personality preferences to determine careers/work environments in which they may fit. Become familiar about fields within engineering, science, or other industries through informational interviewing and industry guest speakers. Learn techniques for gaining experience in your chosen field.

CSE 1413 Preparing for Careers in Science and Engineering
1 credit(s);
**Instructor:** Duffy, Amanda Jo
**Description:** Student may contact the instructor or department for information.

CSE 2096 Field Study; Internship, Industrial Assignment
S-N only, 1 credit(s), max credits 2;
**Instructor:** Sorenson-Wagner, Mark
**Description:** Student may contact the instructor or department for information.

CSE 4096 Field Study; Internship, Industrial Assignment
S-N only, 1 credit(s), max credits 2;
**Instructor:** Sorenson-Wagner, Mark
**Description:** Student may contact the instructor or department for information.

**Communication Studies    225 Ford Hall**

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
**Instructor:** Gesche, Nan
**Description:** Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
**Instructor:** Grayden, Elizabeth D
**Description:** Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
**Instructor:** Jurisz, Rebecca Ann
**Description:** Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
**Instructor:** Porter II, Louis
**Description:** Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
**Instructor:** Anderson, Wendy K. Z.
**Description:** Student may contact the instructor or department for information.
Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Odash, Diane L
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Hammer, Carl Joseph
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Baxter, Michael Judson
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Short, Eric J
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Shada, Andrea
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Zhu, Min
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Zimmerman, Heidi M
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Kanno, Ryo
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Janati, Jody
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Makstenieks, Scott Thomas
Description: Student may contact the instructor or department for information.
Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Hamilton, Joy
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Trifonov, Svilen Veselinov
Description: Student may contact the instructor or department for information.

Comm 1101 Introduction to Public Speaking
3 credit(s); Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Bedor, Emma
Description: Student may contact the instructor or department for information.

Comm 1101H Honors: Introduction to Public Speaking
A-F only, 3 credit(s); Honors Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Nordin, John P
Description: Student may contact the instructor or department for information.

Comm 1313W Analysis of Argument
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Helwich, David A
Description: Student may contact the instructor or department for information.

Comm 1313W Analysis of Argument
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Ranachan, Kate
Description: Student may contact the instructor or department for information.

Comm 1313W Analysis of Argument
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Horvath, Daniel Ladislau
Description: Student may contact the instructor or department for information.

Comm 1313W Analysis of Argument
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Hiland, Alexander Scott
Description: Student may contact the instructor or department for information.

Comm 1313W Analysis of Argument
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Calder, Simon Richard
Description: Student may contact the instructor or department for information.

Comm 1313W Analysis of Argument
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Anderson, Sky LaRell
Description: Student may contact the instructor or department for information.

Comm 1901 Freshman Seminar: Environmental Communication in England
3 credit(s); Meets CLE req of Environment
Instructor: Pedelty, Mark Holmes
Description: Student may contact the instructor or department for information.
Comm 3110 Topics in Communication Studies
  3 credit(s), max credits 15, 5 completions allowed; Credit will not be granted if credit has been received for: COMM 3110H;
  Instructor: Helwich, David A
  Description: Student may contact the instructor or department for information.

Comm 3110H Honors Topics in Communication Studies: Storytelling In Conversation
  A-F only, 3 credit(s), max credits 15, 5 completions allowed; Honors Credit will not be granted if credit has been received for: COMM 3110;
  Instructor: Sheldon PhD, Amy
  Description: Student may contact the instructor or department for information.

Comm 3190H Honors Course: Research Seminar in Communication
  A-F only, 3 credit(s), max credits 6;
  Instructor: STAFF
  Description: Student may contact the instructor or department for information.

Comm 3201 Introduction to Electronic Media Production
  A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
  Instructor: Jurisz, Rebecca Ann
  Description: Student may contact the instructor or department for information.

Comm 3201 Introduction to Electronic Media Production
  A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
  Instructor: Cole, Erin Louise Dempsey
  Description: Student may contact the instructor or department for information.

Comm 3201 Introduction to Electronic Media Production
  A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
  Instructor: Frank, Jay Alexander
  Description: Student may contact the instructor or department for information.

Comm 3201 Introduction to Electronic Media Production
  A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
  Instructor: Neuman-Scott, Mark A
  Description: Student may contact the instructor or department for information.

Comm 3201 Introduction to Electronic Media Production
  A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
  Instructor: Fischer, Mia Louisa
  Description: Student may contact the instructor or department for information.

Comm 3204 Advanced Electronic Media Production
  A-F only, 4 credit(s);
  Instructor: Gregg, Peter Benjamin
  Description: Student may contact the instructor or department for information.

Comm 3204 Advanced Electronic Media Production
  A-F only, 4 credit(s);
  Instructor: Neuman-Scott, Mark A
  Description: Student may contact the instructor or department for information.

Comm 3211 Introduction to U.S. Electronic Media
  3 credit(s);
  Instructor: Rodman, Gilbert B.
  Description: Student may contact the instructor or department for information.

Comm 3231 Reality TV: History, Culture, and Economics
  3 credit(s);
Comm 3263W Media Literacy: Decoding Media Images and Messages
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Cormany, Diane Laura
Description: Student may contact the instructor or department for information.

Comm 3263W Media Literacy: Decoding Media Images and Messages
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Bergh, Justin Lars
Description: Student may contact the instructor or department for information.

Comm 3263W Media Literacy: Decoding Media Images and Messages
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Arcy, Jacquelyn H
Description: Student may contact the instructor or department for information.

Comm 3263W Media Literacy: Decoding Media Images and Messages
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Wight, Jules
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: Isaacs, Alyssa Marie
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. Social scientific theory in communication. Communication history. Logic of scientific/communication theories in interpersonal, small group, organizational, intercultural, and electronically mediated communication.
Style: Online
Grading: See attached syllabus

Comm 3401 Introduction to Communication Theory
3 credit(s);
Instructor: Koerner, Ascan Felix
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 3402 Introduction to Interpersonal Communication
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Comm 3409 Nonverbal Communication
3 credit(s); Meets CLE req of Social Sciences
Instructor: Hansen, Wes
Comm 3411 Introduction to Small Group Communication
3 credit(s);
Instructor: Gesche, Nan
Description: In a growing world, our ability to "play well with others" is a life skill that will be valuable in the job market and your personal interactions. Thus small group communication skills are critical to everyone to make groups and group members more effective. Not only do you obtain a greater knowledge of group dynamics, you also learn more about them in group settings. In this course we will examine case studies, learn different methods of group decision making, analyze the different stages of group development, manage group conflicts, and understand how leadership advances effect group problems. Topics such as virtual and nonverbal communication are also covered and discussed. You will learn these concepts using multiple tools such as lectures, readings, and small group assignments in class. The small group interaction provides a hands on approach for you to practice the things you learn in class.

Comm 3411 Introduction to Small Group Communication
3 credit(s);
Instructor: Shada, Andrea
Description: In a growing world, our ability to "play well with others" is a life skill that will be valuable in the job market and your personal interactions. Thus small group communication skills are critical to everyone to make groups and group members more effective. Not only do you obtain a greater knowledge of group dynamics, you also learn more about them in group settings. In this course we will examine case studies, learn different methods of group decision making, analyze the different stages of group development, manage group conflicts, and understand how leadership advances effect group problems. Topics such as virtual and nonverbal communication are also covered and discussed. You will learn these concepts using multiple tools such as lectures, readings, and small group assignments in class. The small group interaction provides a hands on approach for you to practice the things you learn in class.

Comm 3411 Introduction to Small Group Communication
3 credit(s);
Instructor: Zhu, Min
Description: In a growing world, our ability to "play well with others" is a life skill that will be valuable in the job market and your personal interactions. Thus small group communication skills are critical to everyone to make groups and group members more effective. Not only do you obtain a greater knowledge of group dynamics, you also learn more about them in group settings. In this course we will examine case studies, learn different methods of group decision making, analyze the different stages of group development, manage group conflicts, and understand how leadership advances effect group problems. Topics such as virtual and nonverbal communication are also covered and discussed. You will learn these concepts using multiple tools such as lectures, readings, and small group assignments in class. The small group interaction provides a hands on approach for you to practice the things you learn in class.

Comm 3422 Interviewing and Communication
A-F only, 3 credit(s);
Instructor: Odash, Diane L
Description: Student may contact the instructor or department for information.

Comm 3431 Persuasion Theories
3 credit(s);
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); Meets CLE req of Writing Intensive
Instructor: Elias, Liora P.
Description: Student may contact the instructor or department for information.

Comm 3452W Communication and the Intercultural Reentry
Comm 3601 Introduction to Rhetorical Theory
3 credit(s);  Meets CLE req of Writing Intensive
Instructor: Walzer, Arthur Eugene
Description: Comm 3601 studies rhetoric from a philosophical point of view. It seems impossible to think about rhetoric without raising some fundamental questions, such as "What is the relationship between language and reality or, at least, between language and our knowledge of reality?"? What ethical obligations should we assume when we attempt to persuade someone? Throughout history, philosophers and rhetoricians have debated these matters. To study the history and theory of rhetoric is, then, to study metaphysics and moral philosophy with regard to language. From Ancient Athens through the Renaissance (a period of roughly 2200 years), rhetoric was the central discipline, the organizing subject, in schools throughout Europe. No subject before or since has occupied such an important place in the curriculum. Rhetoric was not taught (as it often is today) as a skill only?as teaching someone how to deliver a speech or write a paper. The question at the center of the rhetoric course was, "What does one need to know and be able to do to persuade someone in our culture?" Therefore, according to Cicero, the orator needed comprehensive knowledge of the culture in order to be an effective speaker. The main goal of this comprehensive rhetoric course was to prepare citizens for involvement in politics. Speaking effectively is obviously an essential skill to being a political leader. To study the history of rhetoric is, therefore, to study the history of democracy or at least (since democracy has not always flourished in Europe), the history of citizen involvement in politics and the courts. Throughout this course, we will study the political role that rhetoric played?from its crucial contribution to the birth of democracy in Athens in the fifth century BCE; during the Roman Republic of Cicero's time, which became a model for our founding fathers; in Renaissance Italy, when Machiavelli taught that what is persuasive often conflicts with the true and the good; and into the twenty-first century America.

Style: 80% Lecture, 20% Discussion.
Grading: 25% reports/papers, 60% quizzes, 15% attendance.
Exam Format: Quizzes are 50% essay, 50% objective.

Comm 3605W Persuasive Speaking and Speech Writing
3 credit(s);  Meets CLE req of Writing Intensive
Instructor: Prasch, Allison M.
Description: Student may contact the instructor or department for information.

Comm 3615 Argumentation
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Comm 3625 Communication Ethics
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Comm 3631 Freedom of Speech
3 credit(s);  Meets CLE req of Civic Life and Ethics
Instructor: Stevens, Shannon Victoria
Description: Student may contact the instructor or department for information.

Comm 3635W Famous Speeches
A-F only, 3 credit(s);  Meets CLE req of Writing Intensive
Instructor: Campbell, Karlyn Kohrs
Description: Student may contact the instructor or department for information.

Comm 3681W Rhetorical Fictions and 20th Century Conflicts
4 credit(s);  Meets CLE req of Global Perspectives; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Walzer, Arthur Eugene
Description: In COMM 3681W students will read important 20th-century novels and non-fiction works that focus on the impact of Europe and North America on Africa, Asia, and the Middle East. The course fulfills the global perspectives requirement and the literature core requirement in the University's Liberal Education Curriculum. It is also a designated Writing Intensive course. Recent history has been dominated by interventions by Europeans and North Americans on other parts of the world. Americans understand the motives for, and meaning of, this involvement differently from the way it is perceived by the native peoples of Africa, Vietnam, and in the Middle East. One goal of this course is to compare these
different perspectives. For example, students will compare novels written by an English novelist (Joseph Conrad) and an African novelist (Chinua Achebe) by focusing on their different portrayals of Africa, Africans, and the Westerners who arrived to help and to exploit. A second goal of the course is to help you appreciate the persuasive power of literature. The course will focus particularly on how novels influence readers’ perceptions of cultures and political events. It will explore how novels use uniquely artistic resources to influence readers by comparing the way literature works to the way more overtly rhetorical works persuade. Finally, the course will consider the ways that visual presentations influence audiences by examining a graphic novel and a documentary and fictional films.

**Style:** 35% Lecture, 5% Film/Video, 60% Discussion.

**Grading:** 45% reports/papers, 33% quizzes, 22% class participation. Attendance is a major factor in determining participation grade.

**Exam Format:** Quizzes are 50% essay; 50% short answer.

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**Comm 3970 Directed Study**
- 1-3 credit(s), max credits 6, 6 completions allowed;
- Instructor: Gregg, Peter Benjamin
- **Description:** Student may contact the instructor or department for information.

**Comm 3970 Directed Study**
- 1-3 credit(s), max credits 6, 6 completions allowed;
- Instructor: Jones, Susanne Margarethe
- **Description:** Student may contact the instructor or department for information.

**Comm 3990 Research Practicum**
- 1-3 credit(s), max credits 6, 6 completions allowed;
- Instructor: Jones, Susanne Margarethe
- **Description:** Student may contact the instructor or department for information.

**Comm 3995W Major Project**
- S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
- Instructor: Pedelty, Mark Holmes
- **Description:** Student may contact the instructor or department for information.

**Comm 3995W Major Project**
- S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
- Instructor: Rose, Jeremy H
- **Description:** Student may contact the instructor or department for information.

**Comm 3995W Major Project**
- S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
- Instructor: Vavrus, Mary D
- **Description:** Student may contact the instructor or department for information.

**Comm 3995W Major Project**
- S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
- Instructor: Hewes, Dean E
- **Description:** Student may contact the instructor or department for information.

**Comm 3995W Major Project**
- S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
- Instructor: Campbell, Karlyn Kohrs
- **Description:** Student may contact the instructor or department for information.

**Comm 3995W Major Project**
- S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
- Instructor: Jacobi, Laura Jean
- **Description:** Student may contact the instructor or department for information.

**Comm 3995W Major Project**
- S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
- Instructor: Koerner, Ascan Felix
Comm 3995W Major Project
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Gregg, Peter Benjamin
Description: Student may contact the instructor or department for information.

Comm 3995W Major Project
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Galarneault, Stephanie M
Description: Student may contact the instructor or department for information.

Comm 3995W Major Project
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Jones, Susanne Margarethe
Description: Student may contact the instructor or department for information.

Comm 3995W Major Project
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Rodman, Gilbert B.
Description: Student may contact the instructor or department for information.

Comm 3995W Major Project
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Killian, Justin L
Description: Student may contact the instructor or department for information.

Comm 3995W Major Project
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Squires, Catherine R
Description: Student may contact the instructor or department for information.

Comm 3995W Major Project
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Prasch, Allison M.
Description: Student may contact the instructor or department for information.

Comm 4263 Feminist Media Studies
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US
Instructor: Squires, Catherine R
Description: Student may contact the instructor or department for information.

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

Comm 4407 Communication and Conflict
A-F only, 3 credit(s);
Instructor: Jones, Susanne Margarethe
Description: This course will introduce you to the basic principles of conflict, and the application of effective, appropriate conflict resolution strategies and mediation behaviors. We will discuss factors that lead to conflict, and will introduce the enactment of effective conflict behavior in various social settings and among various cultural groups. While a theoretical discussion of conflict is in the foreground of the class, we will also focus on discussing, learning, and practicing skills to manage conflict constructively.
Style: 75% Lecture, 20% Discussion, 5% Guest Speakers.
Grading: 12% mid exam, 16% final exam, 50% reports/papers, 12% quizzes, 10% journal.
Exam Format: Multiple choice

Comm 4471 Communication in Marriage and Family
Comm 4602W Contemporary Political Persuasion
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Killian, Justin L
Description: Student may contact the instructor or department for information.

Comm 5110 Special Topics in Communication Theory
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Pedelty, Mark Holmes
Description: Communication plays an important role in ecological systems. The seminar is a study of the historical, cultural, and material contexts within which environmental communication takes place, and an assessment of media strategies. The aim is to understand environmental communication as well as develop communication strategies that might lead to more sustainable social practices, institutions, and systems. After studying the foundational theories, concepts, and methodologies of environmental communication, we will examine the following topical areas: news coverage of climate change, environmental advertising, media strategies of environmental movements, and music and the arts as environmental communication. Our main focus will be on North America, with comparative, international, and continental understandings of the ways in which Canada, Mexico, and the USA communicate, contest, and resolve shared environmental problems. We will use the theme of boundary waters? to focus that discussion. In addition to studying environmental communication, students will come away from the seminar with a practical sense of how to communicate more effectively with diverse constituencies about environmental problems and possibilities.
Style: 20% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities, 20% Student Presentation, 5% Field Trips, 5% Guest Speakers. Small group activities will include role playing environmental communication cases in order to gain a better understanding of real world communication contexts.
Grading: 10% final exam, 35% reports/papers, 25% quizzes, 20% in-class presentation, 10% class participation.

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

Comm 5261 Political Economy of Media Culture
3 credit(s);
Instructor: Vavrus, Mary D
Description: Student may contact the instructor or department for information.

Comm 5411 Small Group Communication Research
A-F only, 3 credit(s);
Instructor: Hewes, Dean E
Description: COMM 5411 focuses on communication in decision making groups. Theories addressed concern leadership, group development, and normative approaches to decision quality. Each of these areas is addressed from three perspectives—reductionistic, organicistic, and systemic. The first implies that communication has no role in group outcomes, the second treats communication at the group, rather than at the individual, level, and the last addresses the connection between individual level process and emergent group outcomes. Final grades are determined by scoring on two tests and a final project.

Comm 5431 The Process of Persuasion
3 credit(s);
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
Comm 5441 Communication in Human Organizations
3 credit(s);
Instructor: Jacobi, Laura Jean
Description: This fully online section is offered though Online and Distance Learning (ODL), 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 information. 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.
Style: Online
Grading: See attached syllabus

Comm 5451W Intercultural Communication Processes
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Jacobi, Laura Jean
Description: Student may contact the instructor or department for information.

Comm 5615W Introduction to Rhetorical Criticism
3 credit(s); 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;
Instructor: Greene, Ronald Walter
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 18, 6 completions allowed;
Instructor: Ouellette, Laurie Jean
Description: Student may contact the instructor or department for information.

Comparative Literature 235 Nicholson Hall

CL 5555 Introduction to Semiotics
3 credit(s); Credit will not be granted if credit has been received for: CSCL 5555;
Instructor: Pepper, Thomas Adam
Description: This course is a rigorous introduction to the thought of the sign during this last century. The emphasis is on the word "thought", that is to say, on the way in which semiotics, far from being an isolated discipline, is essentially related to all its neighbors, including: anthropology, feminism, linguistics, literature, marxism, philosophy, psychoanalysis. Readings include: Althusser, Austin, Barthes, Borges, Deleuze, Derrida, Eichenbaum, Foucault, Freud, Jakobson, Kristeva, Mitchell and Rose, Lacan, Levinas, Levi-Strauss, Lotman, Peirce, Saussure, Shklovsky, Wimsatt and Beardsley, Winnicott.
Style: 70% Lecture, 30% Discussion.
Grading: 70% reports/papers, 10% in-class presentation, 20% class participation.
Exam Format: Paper

CL 5992 Directed Reading in Comparative Literature
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CL 8002 Basic Research Seminar in Comparative Literature II
3 credit(s); Credit will not be granted if credit has been received for: CSDS 8002;
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);
Instructor: Casarino, Cesare
Description: Student may contact the instructor or department for information.

CL 8910 Advanced Topics in Comparative Literature: Dialectics & Dialectical Thought
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Brennan, Timothy Andres
Description: This course is about giving students an understanding, both historical and practical, of what it means to think dialectically, and why it matters. As for the historical, 1) the term (in philosophy) has been central since antiquity. In Aristotle it referred to the art of argument, particularly refutation; in Plato, to the method of acquiring truth by means of a dialogue. Dialectics is, in fact, another name for dialogue, and in all its variants it is dialogical. In modernity, very famously in Hegel, dialectics achieves a massive historical and political prominence. It is not going too far to say that it generates a global wave of social activism and critique, leading in time to the well-known story of Marx's development of a theory of historical materialism and of social contradiction. Here it becomes nothing less than the philosophical logic of revolution. Our own time (the last three or four decades) has been notoriously at war with dialectics (partly because of its fear of revolution), and yet here we confront a paradox. For the word "dialectics" is used everywhere in essays and books today, deployed with complete abandon, and at times even applied to schools like deconstruction or the Deleuzian critique of modalities in the most confusing ways, since both are so explicitly hostile to the Platonic and Hegelian sources of dialectical thought. As for the practical aspects of the issue, 2) as we struggle to compose our essays and dissertations, we are forced to confront eventually the question of how we are to prove what we set out to prove. What constitutes a case? How tell whether one has a viable idea or not? What purchase do our ideas have on the world? Our discussion of dialectics will address what the term means as method, and how that method differs from others -- from, say, the neo-positivism of world literature; the liberal empiricism of affect theory, ontologies of the body, and surface reading; the prophetic anarchy of autonomist communism and Badiou's theory of the "Event"; and the perennial attractions in early 21st century America and Europe to a "productive" reading that forecloses any dialogue between an active subject and an active object. Let me stress, though, that the course will proceed basically. Little prior knowledge of the above subjects is assumed. Our work will be to read slowly and thoroughly through a discreet number of central texts in order to arrive at useable, working definitions of dialectics, contrasting this mode of thought to other alternatives. My desire is to place the issue of this mode of thought in its proper history, and to leave students with a clear reason for embracing or rejecting it in ways relevant to their own writing and to their understanding of the current moment of theory in the humanities.

CL 8910 Advanced Topics in Comparative Literature: The Linguistic Turn
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Gallope, Michael
Description: Is philosophy best articulated through language? Or do other media? musical, visual, cinematic, physiological, performative, mathematical, scientific, material, industrial? have uniquely non-linguistic modes of articulating, indicating, or implying philosophical wisdom and critical thought? In recent decades, much has been made of what Richard Rorty once described as "the Linguistic Turn," a constellation of theories that viewed the properties of language as conditions for philosophy, knowledge, culture, and life. Taking a broad historical view of this intervention, this seminar proposes two trajectories: 1) to reassess the foundational texts of the linguistic turn (Wittgenstein, Saussure, Russell, Heidegger, Derrida, Searle, Foucault, Lacan) and 2) to survey a range of thinkers who develop critical views concerning the hegemony of language (Bloch, Adorno, Jaaneklevitch, Rosset, Deleuze and Guattari, Badiou, Meilandou). In our meetings, we will link basic expositions of the central problems with close readings of selected passages, develop critical responses to the stated views, and initiate dialogue with relevant aesthetic, historical, and ethnographic objects.

CL 8910 Advanced Topics in Comparative Literature: Marginalia
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Morris, Leslie C
Description: This seminar will explore marginalia as literary form. We will first consider marginalia in its most literal meaning of writing found in the margins of texts, and move to a broader consideration of the materiality of literary texts and the poetics of writing?outside the margins.? Examining classic cases of marginalia (Coleridge; Poe; Kafka; Benjamin), we will explore text that is both on and outside the margins; text that slips off the page; paratext; writing found outside the margins, within the parentheses, on the body, on the wall. Topics to be addressed include: the archive and marginalia; discarded texts and their "afterlives"; marginalia and the found text, the fragment, and translation; imprint of Talmudic text on contemporary Jewish poetic practices; hypertext as marginalia; the ways in which emendation, annotation, citation, footnotes, the index and gloss expand the frame of the text. The seminar will also consider the place of print text in Conceptual and Pop art and the relationships between word, text, and image. Readings by, among others, Benjamin, Blonstein, Borges, Calvino, Celen, Cixous, Coleridge, Derrida, Oswald Egger, Freud, Kafka, Karasick, Pessoa, Poe, Sebald, Sondheim, Benjamin Stein., Class will be conducted in English, with all readings available in English.
Style: 20% Lecture, 80% Discussion.

CL 8910 Advanced Topics in Comparative Literature: Post-Colonial Translation
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Tageldin, Shaden M
Description: "Translation," writes Gayatri 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, Europe, and their diasporas. On each side of the power differential it enforces, empire deforms and reshapes both the theory and the praxis of translation. We will consider those effects, as well as the impact of the translation-empire nexus on world literary and historical formations and transformations. Translation in this seminar, then, will denote as much ontological, epistemological, and cultural translation as it will inter- and intra-lingual translation. Shuttling between critical translation theory, literary history, and close readings of "translational literature," we will engage a set of interrelated questions. How have representatives of modern Western empire (invaders and traders, preachers and teachers, scholars and bureaucrats) used translation to elicit the surrender of their would-be subjects? How have writers and intellectuals in colonized or semi-colonial domains, in turn, pursued translation to resist or embrace their dominators' assumed "superiority" and—most often—to propel their cultures toward the West's presumed "modernity"? Why have literary-cultural "awakenings" in much of the world beyond Europe—from the Indian "renaissance" to the Arab nahda to the Chinese May Fourth movement to pan-African negritude—taken such charged translational forms, refashioning literary cultures at once along and against a dominant European grain? Which face of translation—equivalence or incommensurability—might forge cultural and political equity between the dominator and the dominated? Which reinforces subjection? How might we theorize (post)colonial translation in terms linguistic, material, religious, affective, sexual, psychological? Finally, what are the implications of the translation-empire nexus for world or comparative literature and postcolonial studies today? Readings include selections from Agha Shahid Ali, Emily Apter, Walter Benjamin, Homi Bhabha, Aime Césaire, Theresa Hak Kyung Cha, Brent Hayes Edwards, Roman Jakobson, Abdelfattah Kilito, Lydia Liu, Lu Xun, Tejaswini Niranjana, Ngugi wa Thiong'o, Vicente Rafael, Naoki Sakai, S. Shankar, Gayatri Chakravorty Spivak, Rabindranath Tagore, Rifa'a al-Tahtawi, Lawrence Venuti, and others.

Style: 25% Lecture, 50% Discussion, 25% Student Presentation.
Grading: 60% reports/papers, 20% in-class presentation, 20% class participation.

Comparative Studies in Discourse and Society  235 Nicholson Hall

CSDS 5555 Introduction to Semiotics
3 credit(s); Credit will not be granted if credit has been received for: CSCL 5555;
Instructor: Pepper, Thomas Adam
Description: This course is a rigorous introduction to the thought of the sign during this last century. The emphasis is on the word "thought", that is to say, on the way in which semiotics, far from being an isolated discipline, is essentially related to all its neighbors, including: anthropology, feminism, linguistics, literature, marxism, philosophy, psychoanalysis. Readings include: Althusser, Austin, Barthes, Borges, Deleuze, Derrida, Eichenbaum, Foucault, Freud, Jakobson, Kristeva, Mitchell and Rose, Lacan, Levinas, Levi-Strauss, Lotman, Peirce, Saussure, Shklovsky, Wimsatt and Beardsley, Winnicott.
Style: 70% Lecture, 30% Discussion.
Grading: 70% reports/papers, 10% in-class presentation, 20% class participation.
Exam Format: Paper

CSDS 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: STAFF
Description: Directed study - arranged

CSDS 8002 Basic Research Seminar in Comparative Studies in Discourse and Society II
3 credit(s); Credit will not be granted if credit has been received for: CL 8002;
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);
Instructor: Casarino, Cesare
Description: Student may contact the instructor or department for information.

CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Dialectics & Dialectical Thought
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Brennan, Timothy Andres
This course is about giving students an understanding, both historical and practical, of what it means to think dialectically, and why it matters. As for the historical, 1) the term (in philosophy) has been central since antiquity. In Aristotle it referred to the art of argument, particularly refutation; in Plato, to the method of acquiring truth by means of a dialogue. Dialectics is, in fact, another name for dialogue, and in all its variants it is dialogical. In modernity, very famously in Hegel, dialectics achieves a massive historical and political prominence. It is not going too far to say that it generates a global wave of social activism and critique, leading in time to the well-known story of Marx's development of a theory of historical materialism and of social contradiction. Here it becomes nothing less than the philosophical logic of revolution. Our own time (the last three or four decades) has been notoriously at war with dialectics (partly because of its fear of revolution), and yet here we confront a paradox. For the word "dialectics" is used everywhere in essays and books today, deployed with complete abandon, and at times even applied to schools like deconstruction or the Deleuzian critique of modalities in the most confusing ways, since both are so explicitly hostile to the Platonic and Hegelian sources of dialectical thought. As for the practical aspects of the issue, 2) as we struggle to compose our essays and dissertations, we are forced to confront eventually the question of how we are to prove what we set out to prove. What constitutes a case? How tell whether one has a viable idea or not? What purchase do our ideas have on the world? Our discussion of dialectics will address what the term means as method, and how that method differs from others -- from, say, the neo-postivism of world literature; the liberal empiricism of affect theory, ontologies of the body, and surface reading; the prophetic anarchy of autonomist communism and Badiou's theory of the "Event"; and the perennial attractions in early 21st century America and Europe to a "productive" reading that forecloses any dialogue between an active subject and an active object. Let me stress, though, that the course will proceed basically. Little prior knowledge of the above subjects is assumed. Our work will be to read slowly and thoroughly through a discreet number of central texts in order to arrive at useable, working definitions of dialectics, contrasting this mode of thought to other alternatives. My desire is to place the issue of this mode of thought in its proper history, and to leave students with a clear reason for embracing or rejecting it in ways relevant to their own writing and to their understanding of the current moment of theory in the humanities.

**CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: The Linguistic Turn**

*3 credit(s), max credits 24, 8 completions allowed;*  
**Instructor:** Gallope, Michael  
**Description:** Is philosophy best articulated through language? Or do other media? Musical, visual, cinematic, physiological, performative, mathematical, scientific, material, industrial? Have uniquely non-linguistic modes of articulating, indicating, or implying philosophical wisdom and critical thought? In recent decades, much has been made of what Richard Rorty once described as "the Linguistic Turn," a constellation of theories that viewed the properties of language as conditions for philosophy, knowledge, culture, and life. Taking a broad historical view of this intervention, this seminar proposes two trajectories: 1) to reassess the foundational texts of the linguistic turn (Wittgenstein, Saussure, Russell, Heidegger, Derrida, Searle, Foucault, Lacan) and 2) to survey a range of thinkers who develop critical views concerning the hegemony of language (Bloch, Adorno, Jankelevitch, Rosset, Deleuze and Guattari, Badiou, Meillassoux). In our meetings, we will link basic expositions of the central problems with close readings of selected passages, develop critical responses to the stated views, and initiate dialogue with relevant aesthetic, historical, and ethnographic objects.

**CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Marginalia**

*3 credit(s), max credits 24, 8 completions allowed;*  
**Instructor:** Morris, Leslie C  
**Description:** This seminar will explore marginalia as literary form. We will first consider marginalia in its most literal meaning of writing found in the margins of texts, and move to a broader consideration of the materiality of literary texts and the poetics of writing outside the margins. Examining classic cases of marginalia (Coleridge; Poe; Kafka; Benjamin), we will explore text that is both on and outside the margins; text that slips off the page; paratext; writing found outside the margins, within the parentheses, on the body, on the wall. Topics to be addressed include: the archive and marginalia; discarded texts and their afterlives; marginalia and the found text, the fragment, and translation; imprint of Talmudic text on contemporary Jewish poetic practices; hypertext as marginalia; the ways in which emendation, annotation, citation, footnotes, the index and gloss expand the frame of the text. The seminar will also consider the place of print text in Conceptual and Pop art and the relationships between word, text, and image. Readings by, among others, Benjamin, Blonstein, Borges, Calvino, Celan, Cixous, Coleridge, Derrida, Oswald Egger, Freud, Kafka, Karasick, Pessoa, Poe, Sebald. Sondheim, Benjamin Stein,. Class will be conducted in English, with all readings available in English.  
**Style:** 20% Lecture, 80% Discussion.

**CSDS 8910 Advanced Topics in Comparative Studies in Discourse and Society: Post-Colonial Translation**

*3 credit(s), max credits 24, 8 completions allowed;*  
**Instructor:** Tageldin, Shaden M  
**Description:** "Translation," writes Gayatri 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, Europe, and their diasporas. On each side of the power differential it enforces, empire deforms and reshapes both the theory and...
the praxis of translation. We will consider those effects, as well as the impact of the translation-empire nexus on world literary and historical formations and transformations. Translation in this seminar, then, will denote as much ontological, epistemological, and cultural translation as it will inter- and intra-lingual translation. Shuttling between critical translation theory, literary history, and close readings of "translational literature," we will engage a set of interrelated questions. How have representatives of modern Western empire (invaders and traders, preachers and teachers, scholars and bureaucrats) used translation to elicit the surrender of their would-be subjects? How have writers and intellectuals in colonized or semi-colonial domains, in turn, pursued translation to resist or embrace their dominators' assumed "superiority" and--most often--to propel their cultures toward the West's presumed "modernity"? Why have literary-cultural "awakenings" in much of the world beyond Europe—from the Indian "renaissance" to the Arab nahda to the Chinese May Fourth movement to pan-African negritude—taken such charged translational forms, refashioning literary cultures at once along and against a dominant European grain? Which face of translation—equivalence or incommensurability—might forge cultural and political equity between the dominator and the dominated? Which reinforces subjection? How might we theorize (post)colonial translation in terms linguistic, material, religious, affective, sexual, psychological? Finally, what are the implications of the translation-empire nexus for world or comparative literature and postcolonial studies today? Readings include selections from Agha Shahid Ali, Emily Apter, Walter Benjamin, Homi Bhabha, Aime Cesaire, Theresa Hak Kyung Cha, Brent Hayes Edwards, Roman Jakobson, Abdelfattah Kilito, Lydia Liu, Lu Xun, Tejaswini Niranjana, Ngugi wa Thiong'o, Vicente Rafael, Naoki Sakai, S. Shankar, Gayatri Chakravorty Spivak, Rabinindranath Tagore, Rifa’a al-Tahtawi, Lawrence Venuti, and others.

Style: 25% Lecture, 50% Discussion, 25% Student Presentation.
Grading: 60% reports/papers, 20% in-class presentation, 20% class participation.

CSDS 8993 Directed Study in Comparative Studies in Discourse and Society
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Werry,Margaret L
Description: Student may contact the instructor or department for information.

Comparative and Molecular Biosciences

CMB 5594 Directed Research in Comparative and Molecular Biosciences
1-4 credit(s), max credits 8, 8 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

CMB 5910 Grantwriting: What Makes a Winning Proposal?
2 credit(s);Credit will not be granted if credit has been received for: VMED 5910;
Instructor: Rutherford,Mark Stephen
Description: Student may contact the instructor or department for information.

CMB 8012 Basic Concepts in Skeletal Biology
A-F only, 2 credit(s);
Instructor: Mansky,Kim
Description: Student may contact the instructor or department for information.

CMB 8100 Research Rotation in Comparative and Molecular Biosciences
S-N only, 1 credit(s), max credits 2;
Instructor: Murtaugh,Michael P
Description: Student may contact the instructor or department for information.

CMB 8303 Comparative Models of Disease
A-F only, 2 credit(s);
Instructor: Collister,John Peter
Description: Student may contact the instructor or department for information.

CMB 8394 Research in Comparative Biomedical Sciences
1-6 credit(s), max credits 18, 5 completions allowed;
Instructor: Murtaugh,Michael P
Description: Student may contact the instructor or department for information.

CMB 8550 Comparative and Molecular Biosciences Seminar
S-N only, 1 credit(s), max credits 8, 8 completions allowed;
<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>CMB 8560</td>
<td>Research and Literature Reports</td>
<td>S-N only, 1 credit(s), max credits 8, 8 completions allowed;</td>
<td>Rutherford, Mark Stephen, Murtaugh, Michael P, Godden, Sandra Michele</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSci 1001</td>
<td>Overview of Computer Science</td>
<td>4 credit(s); Meets CLE req of Mathematical Thinking; meets CLE req of Technology and Society</td>
<td>Barry, Phillip</td>
<td>CSci 1001 is a broad introduction to key ideas of computer science. The course is designed to help you understand the foundations and limits of computing and information technology, reason about possible future applications and technological advances, and contribute informatively to 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 areas of computer science including how computers work; how they solve problems; how they store, analyze, and transmit data; and how they affect, and are affected by, society. The course is structured around six major activities: (i) class lectures, (ii) class discussions, (iii) lab sections that provide a chance for hands-on or in-depth exploration of topics covered more generally in lecture, (iv) reading assignments and discussions of those readings, (v) homework problems, and (vi) quizzes and exams. <strong>Style:</strong> 20% Lecture, 20% Discussion, 30% Laboratory, 20% Small Group Activities, 5% Guest Speakers, 5% Web Based. <strong>Grading:</strong> 25% mid exam, 20% final exam, 10% quizzes, 25% written homework, 10% class participation, 10% laboratory evaluation.</td>
</tr>
<tr>
<td>CSci 1113</td>
<td>Introduction to C/C++ Programming for Scientists and Engineers</td>
<td>4 credit(s);</td>
<td>Challou PhD, Daniel J</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSci 1113</td>
<td>Introduction to C/C++ Programming for Scientists and Engineers</td>
<td>4 credit(s);</td>
<td>Jensen, Steve</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSci 1133</td>
<td>Introduction to Computing and Programming Concepts</td>
<td>4 credit(s);</td>
<td>Jensen, Steve</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSci 1133</td>
<td>Introduction to Computing and Programming Concepts</td>
<td>4 credit(s);</td>
<td>Guy, Stephen J</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSci 1913</td>
<td>Introduction to Algorithms, Data Structures, and Program Development</td>
<td>4 credit(s);</td>
<td>Dovolis, Chris John</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
<tr>
<td>CSci 1933</td>
<td>Introduction to Algorithms and Data Structures</td>
<td>4 credit(s);</td>
<td>wetzel, baylor</td>
<td>Student may contact the instructor or department for information.</td>
</tr>
</tbody>
</table>
CSci 2011 Discrete Structures of Computer Science
4 credit(s); MATH 1271 or MATH 1371 or instr consent Credit will not be granted if credit has been received for: CSCI 2011H;
Instructor: Kuang, Rui
Description: Student may contact the instructor or department for information.

CSci 2011H Honors Discrete Structures of Computer Science
A-F only, 4 credit(s); [MATH 1271 or MATH 1371 or MATH 1571H], honors student. Credit will not be granted if credit has been received for: CSCI 2011;
Instructor: Janardan, Ravi
Description: Student may contact the instructor or department for information.

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

CSci 2033 Elementary Computational Linear Algebra
4 credit(s);
Instructor: Interrante, Victoria
Description: Student may contact the instructor or department for information.

CSci 3081W Program Design and Development
4 credit(s); Meets CLE req of Writing Intensive
Instructor: Challou PhD, Daniel J
Description: Student may contact the instructor or department for information.

CSci 3921W Social, Legal, and Ethical Issues in Computing
3 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
Instructor: Barry, Phillip
Description: Computing technology is having profound effects on society, providing many benefits in communication, commerce, science, and medicine. Our increasing reliance on computers has created many challenges, however. The Internet generates concerns about privacy, freedom of speech, and intellectual property rights. We have also seen how the World Wide Web can make us vulnerable to attacks through worms and viruses. This course will consider these topics within a framework of computer ethics.
Style: 60% Lecture, 20% Discussion, in class exercises
Grading: 15% mid exam, 50% reports/papers, 15% special projects, 5% quizzes, 10% class participation, 5% problem solving.
Exam Format: short answer

CSci 3970 Industrial Student Co-op Assignment
S-N only, 2 credit(s), max credits 4;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

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

CSci 4011 Formal Languages and Automata Theory
4 credit(s);
Instructor: Kim, Seonmo
Description: Finite automata and regular expressions; Context-Free Grammars; Turing machines, computability, recursive versus recursively enumerable sets; Introduction to NP-completeness.
Style: 70% Lecture. recitation
Grading: 15% mid exam, 40% final exam, 45% problem solving.
Exam Format: problem solving

CSci 4041 Algorithms and Data Structures
4 credit(s); [(1913 or 1933) and 2011] or instr consent; cannot be taken for grad CSci cr
Credit will not be granted if credit has been received for: CSCI 4041H;
Instructor: Larson, Amy Caroline
Description: Student may contact the instructor or department for information.

CSci 4061 Introduction to Operating Systems
4 credit(s);
Instructor: STAFF
Description:

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

CSci 4203 Computer Architecture
4 credit(s); 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 4203 Computer Architecture
4 credit(s); 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: Sartori, John M
Description: Student may contact the instructor or department for information.

CSci 4211 Introduction to Computer Networks
3 credit(s); 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: He, Tian
Description: Student may contact the instructor or department for information.

CSci 4211 Introduction to Computer Networks
3 credit(s); 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); 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: wetzel, Baylor
Description: Introduction to Artificial Intelligence will study the classic AI techniques of problem solving as a search problem, formal logic (propositional and first-order) and planning (the combination of search and logic). We will also give a brief overview of machine learning techniques. 4511W is a writing intensive class. Throughout the course, we will discuss how to analyze problems and compare techniques (including algorithms and data structures). Essays will involve explaining techniques in context and arguing for the use of one technique over another for specific problems.

CSci 4611 Programming Interactive Computer Graphics and Games
3 credit(s); 2021 or instr consent; Credit will not be granted if credit has been received for: CSCI 5607;
Instructor: Keefe, Daniel F
Description: Student may contact the instructor or department for information.
CSci 4707 Practice of Database Systems
3 credit(s); 4041 or instr consent Credit will not be granted if credit has been received for: CSCI 5707;
Instructor: Shekhar, Shashi
Description: Student may contact the instructor or department for information.

CSci 4950 Senior Software Project
A-F only, 3 credit(s), max credits 6;
Instructor: wetzel, baylor
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; 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; 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; Meets CLE req of Writing Intensive
Instructor: Challou PhD, Daniel 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; 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; 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; Meets CLE req of Writing Intensive
Instructor: Jensen, Steve
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; 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; Meets CLE req of Writing Intensive
Instructor: Zhang, Zhi-Li
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; 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; 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; 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; 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; 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; 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; 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; 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; 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; 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; 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; 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; Meets CLE req of Writing Intensive
Instructor: Gini, Maria L
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Schrater, Paul Robert
Description: Student may contact the instructor or department for information.
CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Srivastava, Jaideep
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Interrante, Victoria
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Kuang, Rui
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Weissman, Jon B
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: He, Tian
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Nadathur, Gopalan
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Meyer, Gary W
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Van Wyk, Eric
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Terveen, Loren Gilbert
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Chandra, Abhishek
Description: Student may contact the instructor or department for information.

CSci 4970W Advanced Project Laboratory
3 credit(s), max credits 9, 3 completions allowed; Meets CLE req of Writing Intensive
Instructor: Zhai, Antonia Bingheng
Description: Student may contact the instructor or department for information.
CSci 5106 Programming Languages
3 credit(s);
Instructor: Nadathur, Gopalan
Description: This course is intended for advanced undergraduates and beginning graduates. A prior exposure to at least a couple of different programming languages and an interest and willingness to think broadly about such languages will be assumed. The focus in this course will be on conceptual issues—such as structure, usability and implementability—that determine programming languages and paradigms. Much of the material will be presented as case studies based on languages like Pascal, C, C++, Java, ML, Haskell and Prolog. Some programming in each of these languages will be necessary, but this will not be an end in itself. The text for this course is "Programming Languages: Concepts and Constructs", 2nd edition, by Ravi Sethi. Details regarding grading and other policies will be accessible prior to the start of the course from the instructor's Web page at http://www.cs.umn.edu/~gopalan.
Style: 90% Lecture, 10% Discussion.
Grading: 25% mid exam, 25% final exam, 50% problem solving.
Exam Format: Problem solving, conceptual

CSci 5161 Introduction to Compilers
3 credit(s);
Instructor: Zhai, Antonia Bingheng
Description: Student may contact the instructor or department for information.

CSci 5221 Foundations of Advanced Networking
3 credit(s);
Instructor: Zhang, Zhi-Li
Description: Student may contact the instructor or department for information.

CSci 5302 Analysis of Numerical Algorithms
3 credit(s);
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSci 5421 Advanced Algorithms and Data Structures
3 credit(s);
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);
Instructor: Karypis, George
Description: Student may contact the instructor or department for information.

CSci 5461 Functional Genomics, Systems Biology, and Bioinformatics
3 credit(s);
Instructor: Kuang, Rui

CSci 5512 Artificial Intelligence II
3 credit(s); [STAT 3021, 4041] or instr consent Credit will not be granted if credit has been received for: CSCI 5512W;
Instructor: Schrater, Paul Robert
Description: Student may contact the instructor or department for information.

CSci 5521 Introduction to Machine Learning
3 credit(s);
Instructor: Boley, Daniel L
Description: Student may contact the instructor or department for information.

CSci 5552 Sensing and Estimation in Robotics
3 credit(s);
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

CSci 5561 Computer Vision
3 credit(s);
Instructor: Isler, Volkan Ibrahim
Description: Student may contact the instructor or department for information.

CSci 5608 Fundamentals of Computer Graphics II
3 credit(s);
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 5708 Architecture and Implementation of Database Management Systems
3 credit(s);
Instructor: Srivastava, Jaideep
Description: Student may contact the instructor or department for information.

CSci 5802 Software Engineering II
3 credit(s);
Instructor: Rayadurgam, Sanjai
Description: Student may contact the instructor or department for information.

CSci 5980 Special Topics in Computer Science: Location-aware technologies: theory and practice
3 credit(s), max credits 9, 9 completions allowed;
Instructor: Hecht, Brent J
Description: Student may contact the instructor or department for information.

CSci 5980 Special Topics in Computer Science: Introduction to Computational Metagenomics
3 credit(s), max credits 9, 9 completions allowed;
Instructor: Knights, Dan
Description: Student may contact the instructor or department for information.

CSci 5980 Special Topics in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Knights, Dan
Description: Student may contact the instructor or department for information.

CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
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;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

CSci 5991 Independent Study
CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Larson,Amy Caroline
Description: Student may contact the instructor or department for information.

CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Challou PhD,Daniel 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;
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;
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;
Instructor: Jensen,Steve
Description: Student may contact the instructor or department for information.

CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
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;
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;
Instructor: Barry,Phillip
Description: Student may contact the instructor or department for information.

CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Konstan,Joseph Andrew
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Instructor: Janardan,Ravi
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Instructor: Kumar, Vipin
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Instructor: Tripathi, Anand R
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CSci 5991 Independent Study
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Instructor: Meyer, Gary W
Description: Student may contact the instructor or department for information.

CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Van Wyk, Eric
Description: Student may contact the instructor or department for information.

CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Terveen, Loren Gilbert
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CSci 5991 Independent Study
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Instructor: Zhai, Antonia Bingheng
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CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Mokbel, Mohamed F
Description: Student may contact the instructor or department for information.

CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Banerjee, Arindam
Description: Student may contact the instructor or department for information.

CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
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CSci 5991 Independent Study
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Instructor: Guy, Stephen J
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CSci 5991 Independent Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: McCamant, Stephen A.
Description: Student may contact the instructor or department for information.

CSci 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Carlis, John Vincent
Description: Student may contact the instructor or department for information.

CSci 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Dovolis, Chris John
Description: Student may contact the instructor or department for information.

CSci 5994 Directed Research
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Instructor: Challou PhD, Daniel J
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CSci 5994 Directed Research
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Instructor: Karypis, George
Description: Student may contact the instructor or department for information.

CSci 5994 Directed Research
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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;
Instructor: Jensen, Steve
Description: Student may contact the instructor or department for information.
CSci 5994 Directed Research
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Instructor: Yew, Pen-Chung
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CSci 5994 Directed Research
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Instructor: Zhang, Zhi-Li
Description: Student may contact the instructor or department for information.

CSci 5994 Directed Research
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Instructor: Barry, Phillip
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CSci 5994 Directed Research
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CSci 5994 Directed Research
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CSci 5994 Directed Research
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Instructor: Knights, Dan
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CSci 5994 Directed Research
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Guy, Stephen 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;
Instructor: McCamant, Stephen A.
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;
Instructor: Carlis, John Vincent
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;
Instructor: Dovolis, Chris John
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;
Instructor: Challou PhD, Daniel 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;
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;
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;
Instructor: Jensen, Steve
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CSci 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Yew, Pen-Chung
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CSci 5996 Curricular Practical Training
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CSci 5996 Curricular Practical Training
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Instructor: Saad,Yousef
Description: Student may contact the instructor or department for information.

CSci 5996 Curricular Practical Training
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CSci 5996 Curricular Practical Training
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CSci 5996 Curricular Practical Training
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Instructor: Nadathur, Gopalan
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Instructor: Meyer, Gary W
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CSci 5996 Curricular Practical Training
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: McCamant, Stephen A.
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);
Instructor: Karypis, George
Description: Student may contact the instructor or department for information.

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

CSci 8205 Parallel Computer Organization
3 credit(s); 5204 or EE 5364 or instr consent Credit will not be granted if credit has been received for: EE 8367;
Instructor: Yew, Pen-Chung
Description: Student may contact the instructor or department for information.

CSci 8211 Advanced Computer Networks and Their Applications
3 credit(s);
Instructor: Zhang, Zhi-Li
Description: Student may contact the instructor or department for information.
CSci 8271 Security and Privacy in Computing
A-F only, 3 credit(s);
Instructor: McCamant, Stephen A.
Description: Student may contact the instructor or department for information.

CSci 8314 Sparse Matrix Computations
3 credit(s);
Instructor: Saad, Yousef
Description: Student may contact the instructor or department for information.

CSci 8725 Databases for Bioinformatics
3 credit(s);
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);
Instructor: Carlis, John Vincent
Description: Student may contact the instructor or department for information.

CSci 8760 Plan B Project
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Instructor: Dovolis, Chris John
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CSci 8760 Plan B Project
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CSci 8760 Plan B Project
S-N only, 3 credit(s);
Instructor: McCamant, Stephen A.
Description: Student may contact the instructor or department for information.

CSci 8970 Computer Science Colloquium
S-N only, 1 credit(s);
Instructor: Isler, Volkan Ibrahim
Description: Student may contact the instructor or department for information.

CSci 8980 Special Advanced Topics in Computer Science: Readings in Computational Vision and Robotics
3 credit(s), max credits 27, 9 completions allowed;
Instructor: Papanikolopoulos, Nikolaos P
Description: Student may contact the instructor or department for information.
CSci 8980 Special Advanced Topics in Computer Science: Highly Available and Scalable Distributed Systems
3 credit(s), max credits 27, 9 completions allowed;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSci 8980 Special Advanced Topics in Computer Science
3 credit(s), max credits 27, 9 completions allowed;
Instructor: Tripathi, Anand R
Description: Student may contact the instructor or department for information.

CSci 8980 Special Advanced Topics in Computer Science: Machine Learning at Large Scale and High Dimension
3 credit(s), max credits 27, 9 completions allowed;
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;
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;
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CSci 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Carlis, John Vincent
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CSci 8994 Directed Research in Computer Science
1-3 credit(s), max credits 9, 9 completions allowed;
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;
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;
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;
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;
Instructor: Terveen,Loren Gilbert
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;
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;
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;
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;
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;
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;
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;
Instructor: Hecht,Brent J
Description: Student may contact the instructor or department for information.
**CSci 8994 Directed Research in Computer Science**  
1-3 credit(s), max credits 9, 9 completions allowed;  
**Instructor:** Keefe, Daniel F  
**Description:** Student may contact the instructor or department for information.

**CSci 8994 Directed Research in Computer Science**  
1-3 credit(s), max credits 9, 9 completions allowed;  
**Instructor:** Isler, Volkan Ibrahim  
**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;  
**Instructor:** Knights, Dan  
**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;  
**Instructor:** Guy, Stephen J  
**Description:** Student may contact the instructor or department for information.

**CSci 8994 Directed Research in Computer Science**  
1-3 credit(s), max credits 9, 9 completions allowed;  
**Instructor:** McCamant, Stephen A.  
**Description:** Student may contact the instructor or department for information.

**Conservation Biology**  
199 McNeal Hall

**CBio 8001 Conservation Biology Seminar**  
S-N only, 1 credit(s), max credits 6, 6 completions allowed;  
**Instructor:** Oberhauser, Karen S  
**Description:** Student may contact the instructor or department for information.

**CBio 8001 Conservation Biology Seminar**  
S-N only, 1 credit(s), max credits 6, 6 completions allowed;  
**Instructor:** Blair, Robert B  
**Description:** Student may contact the instructor or department for information.

**CBio 8004 Economic and Social Aspects of Conservation Biology**  
3 credit(s);  
**Instructor:** Polasky, Stephen  
**Description:** This course is the second semester of a year-long introductory course for graduate students in the Conservation Biology Graduate Program. Other graduate students who are interested in the field of conservation biology are welcome to enroll. Conservation biology is a mission-oriented science that focuses on how to protect and restore biological diversity. In this course, we will review the ecological concepts constituting the scientific basis for biological conservation. However, since most of the threats to biodiversity originate from human actions, understanding human behavior and the social, political and economic systems in which people act is an essential component for those interested in conserving biodiversity. Consequently, we will review ideas and methods from the social sciences relevant for biological conservation.

**CBio 8095 Contemporary Problems in Conservation Biology**  
S-N only, 1 credit(s);  
**Instructor:** Arnold, Todd W.  
**Description:** Student may contact the instructor or department for information.

**Construction Management**  
20 Ruttan Hall

**CMgt 2019 AutoCAD for Construction Managers**  
2 credit(s);  
**Instructor:** Johnson, Ann M
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 2021 Facility Programming and Design
A-F only, 2 credit(s);
Instructor: Pliska, Justine Elizabeth
Description: Role of planning/design in development of built environment. Case study, evaluating user's program. Sequential design iterations for refined solution presented to client as proposal, from perspective of facility manager. Stakeholder roles. Classroom, online, studio.

CMgt 3001 Introduction to Construction
3 credit(s);
Instructor: Wenck, Troy Alan
Description: Introduction to construction and processes that shape our environment. A discussion of the construction industry, key participants and their vocabulary, building systems, planning and scheduling, project delivery systems, construction documents, sustainability, and project management. Course consists of lectures, site visits, guest speakers.

CMgt 3001 Introduction to Construction
3 credit(s);
Instructor: Kuehn, Rose Marie
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. Introduction to construction and processes that shape our environment. A discussion of the construction industry, key participants and their vocabulary, building systems, planning and scheduling, project delivery systems, construction documents, sustainability, and project management. Course consists of lectures, site visits, guest speakers.
Style: Online
Grading: See attached syllabus

CMgt 3011 Construction Plan Reading
2 credit(s);
Instructor: Kuehn, Rose Marie
Description: Introductory level course in construction plan reading and construction documents. Course materials include architectural, civil, mechanical, electrical drawings and project manual. The emphasis is on the development of skills necessary for the reading, understanding and interpretation of commercial construction plans and project manuals, including notes, symbols, and plan layout. This course is appropriate for third year Construction Management and CALA students, and at any time for students in IT and other colleges.

CMgt 4011 Construction Documents and Contracts
3 credit(s);
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, such as tax exempt status and wage rates.

CMgt 4021 Construction Planning and Scheduling
3 credit(s);
Instructor: Styrlund, Kenneth Andre
Description: Concepts of project planning, scheduling, and control. Understanding project scheduling models with emphasis on the critical path method. Introduction to the techniques used in the industry utilizing commercial software on personal computers. The importance of periodic updating and analysis of schedules and of considering and understanding alternatives will be stressed.

CMgt 4021 Construction Planning and Scheduling
3 credit(s);
Instructor: Galetka, David Alan
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
Instructor: Adamson, Mark Richard

**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);
Instructor: Carroll, Mil

**Description:** Introduction to construction safety, health, and loss control. Hazard recognition. Control procedures. Management systems for measuring/evaluating loss control performances in the construction industry.

**CMgt 4041W Specifications and Technical Writing for Construction Professionals**

3 credit(s); Meets CLE req of Writing Intensive
Instructor: Hilger, A Peter

**Description:** Application of written communication throughout the construction process, including information gathering, bidding and contract documentation, project manual use and interpretation, and construction administration tools and processes related to communication from the perspectives of all team members (designers, contractors, owners, suppliers). In-depth technical writing exercises exploring a variety of communication formats will develop skills associated with effective construction communication.

**CMgt 4051 Construction Materials for Managers**

3 credit(s);
Instructor: Hale, Jupe

**Description:** Basic concepts of physical properties, manufacture and installation of construction materials such as wood, concrete, aggregate/soils, and steel. Engineering design methods, specifications and laboratory techniques for evaluation and use of each material.

**Style:** 70% Lecture, 20% Laboratory, 10% Field Trips.

**Grading:** 16% mid exam, 12% final exam, 10% reports/papers, 42% written homework, 5% class participation, 15% laboratory evaluation.

**CMgt 4073 Building Codes for Construction Managers**

1 credit(s);
Instructor: Holm, Scott Franklin

**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. Building codes history, foundation, structure and organization. Importance to the built environment throughout building life cycle: design, construction, occupancy, demolition. Code compliance and role of building code official. Interpretation and application to specific scenarios. Recognizing and correcting code deficiencies.

**Style:** Online

**Grading:** See attached syllabus

**CMgt 4081 Managing Erosion and Sediment Control on Construction Sites**

A-F only, 1 credit(s);
Instructor: Chapman, John A

**Description:** Designed for those who will supervise, run, or direct construction site operations, grading work, culvert replacement work, and bridge construction work. It will cover the best management practices to reduce or control erosion and sedimentation. Primary topics: permit requirements, stakeholder roles and responsibilities, sample specifications, and using a Storm Water Pollution Prevention Plan (SWPPP). Soil erodibility, turf establishment techniques, grading techniques to minimize erosion, timing of installations, and proper application of best management practices are also covered. Students will learn how to implement the erosion and sediment control plan, the requirements of various regulatory agencies, and consequences of permit violations. This class can be used to achieve the Erosion and Stormwater Construction Site Management Certification, which is required by Minnesota Department of Transportation Standard Specifications on construction sites.

**CMgt 4193 Directed Study**

1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: STAFF

**Description:** Topic arranged in consultation with a Construction Management directed study faculty adviser and your academic adviser. For information, see the Class URL. To download the agreement form:
CMgt 4196 Construction Management Internship  
S-N only, 1-4 credit(s), max credits 12, 3 completions allowed;  
**Instructor:** Hilger,A Peter  
**Description:** Hands-on work experiences in a construction company, applying coursework in the workplace, contributing knowledge of best practices, and participating in career development exercises.

CMgt 4215 Facility Quality Assessment and Commissioning  
A-F only, 2 credit(s);  
**Instructor:** Bassett,Stephen Edward  

CMgt 4422 Advanced Construction Cost Estimating  
2 credit(s);  
**Instructor:** Elthon,Dwight J  
**Description:** Building on prior construction estimating knowledge, this course examines advanced estimating concepts including: procurement; productivity; value engineering. Working in teams, students develop and deliver a competitive bid for a real project and examine strategies to meet the owner's budget and expectations through value engineering approaches.

CMgt 4542 Building Energy Systems  
A-F only, 3 credit(s);  
**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 4861 Construction Management Capstone  
A-F only, 2 credit(s);  
**Instructor:** Hilger,A Peter  
**Description:** Concepts of project management and leadership needed to solve critical, complex and recurring problems on construction projects. Students apply core construction management coursework to industry case studies to create, solve, critically consider and effectively articulate solutions.

**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);  
**Instructor:** Olin,Paul S  
**Description:** Student may contact the instructor or department for information.

CDEd 7302 Postgraduate Contemporary Esthetiic 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
S-N only, 1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Balas, Gary John
Description: Student may contact the instructor or department for information.

Coptic 330 Folwell Hall

Copt 5002 Elementary Coptic
3 credit(s);
Instructor: Sellew, Philip
Description: This course will involve reading and discussion of a wide range of Coptic texts in various dialects, including saints’ lives, prayers and spells, apocryphal gospels, and hymns. Students should have completed Coptic 5001 to enroll in this class.
Style: 20% Lecture, 80% Discussion.
Grading: 40% mid exam, 40% final exam, 20% class participation.
Exam Format: Translation.

Cultural Studies and Comparative Literature 235 Nicholson Hall

CSCL 1001 Introduction to Cultural Studies: Rhetoric, Power, Desire
4 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Vayo, Isaac
Description: This course will introduce Cultural Studies as a critical, theoretical, interpretive, and interdisciplinary way to come to understand our world and our place in it. You will be working simultaneously in three dimensions: reading culture, theorizing culture, and changing culture. As part of this work, you will gather data from people and groups you observe, from the media, from your life, and from your own work as scholars. You will also work on developing theories about culture, to where you can start seeing connections, patterns, and a logic that governs how culture works in different situations. Finally, you will figure out how to spur cultural change, taking your critical cultural analysis and doing something with it, to put it to work changing culture toward the better.

CSCL 1101 Literature
4 credit(s); Meets CLE req of Literature
Instructor: STAFF
Description: This course is meant for people who love reading literature as well as for people who would love to learn how to love reading literature—and it should be lots of fun for both! We will go through the ages—from antiquity to the present day—in search of literature and of its main genres, figures, structures, functions, and themes. We will read of unrequited loves and incestuous desires, of fantastic journeys and monstrous encounters, of power struggles and murderous passions, of passionate friendships and uncanny betrayals, of sexual shame and joyous sex. We will read such things as epic poetry, lyric poetry, plays, novels, parables, and essays.
Style: 100% Lecture.

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 Arts/Humanities
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 Arts/Humanities; 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 Literature; meets CLE req of Writing Intensive
Instructor: STAFF
Description: CSCL 1401W Reading Literature: Theory and Practice 4 credits, 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 Perspectives; 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 1921W Introduction to Film Study
4 credit(s); Credit will not be granted if credit has been received for: ARTH 1921W; Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive
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 3172 Music as Discourse
3 credit(s); Meets CLE req of Arts/Humanities
Instructor: Gallope, Michael
Description: Music as Discourse is based on the premise that music is not only organized sound (melodies, rhythms, and chords) but that it, more vividly, constitutes a "discourse" -- a medium for social processes that institutes, reinforces, sculpts, and challenges relations of power. Through a mix of theoretical readings (Plato, Aristotle, Adorno, Attali) and case studies (below), we will explore how music produces emotion, intoxication, and erotic desire; how it articulates and complicates one's identity; how it is linked with self-discipline, bodily exercise, patriotism, resistance and violence; and how music might be heard as a partner and resistor to labor, consumption, and capitalism. In the process, we will advance provocative interpretations of various musical rituals, compositions, songs, albums, videos, and performances that may once have seemed deeply ordinary or self-evident to you. Examples include: Quranic recitation, Samuel Barber's Adagio for Strings, collegiate marching bands, Kanye West's Yeezus, Haydn's "Drumroll" Symphony, Jimi Hendrix's, "Voodoo Child," Lana Del Rey's Born to Die, Lou Reed's "Walk on the Wild Side," M.I.A.'s "Paper Planes," Steve Reich's Come Out, and Harmony Korine's film Spring Breakers.

CSCL 3173W The Rhetoric of Everyday Life
CSCL 3176 Oppositional Cinematics

4 credit(s); Meets CLE req of Global Perspectives
Instructor: Ganguly, Keya

Description: What does it mean for cinema to be "oppositional"? The answer to this question depends, obviously, on the

CSCL 3175 Comedy: Text and Theory

3 credit(s); Meets CLE req of Arts/Humanities
Instructor: Johnson, Kjel Wayne

Description: Course Description: CSCL 3175 investigates comedy and the comic as mechanisms of pleasure, as modes
of discourse and metadiscourse, as narratives incorporating the extremes of violent subversion and utopian salvation, and
ultimately as a way of being in the world: comedy, in other words, as a philosophy and as a way of life. We’ll explore a
wide range of comic phenomena, from the dirty to the divine, flatulence to afflatus, scatology to eschatology, something, that is,
not only to edify but also to delight and (it is sincerely hoped) offend everybody. And we’ll have some fun along the way.
We will, in short, take comedy seriously – while taking the serious issues to which it relates in the fullest comic spirit.
Caveat Emptor: The course will gleefully and wildly swing between high philosophy and low filth: we are here to play,
to explore, even to mock and deride but never at the expense of a productive dialogue. We will read ourselves as we read
these texts, hopefully to learn as much about the texts from which we derive pleasure as we learn about ourselves and the
structures of meaning and discourse in which we exist and act. We will weave through, dig into, and play within the
following questions: What are the sources of comic pleasure, the causes of laughter? What are the psychic and social ends
of comedy? What is the necessary relation between comedy, violence, and cruelty? What is comedy’s relation to play,
ritual, sports and games, festivals, holidays, and religion? How does the human body? its desires, its physical processes,
its secrets and excretions, its decay and death? function in comic discourse? What are some of the principal narrative
modes of comedy? How are comic pleasures mobilized to persuade, educate, and communicate values; to reproduce,
reinforce, or subvert authority, asymmetrical power relations and the ideologies on which they depend? What is it about
comedy that renders it so politically useful? Why do gender and the conventions of the theater (e.g., role-playing,
performance, and archetypal formations) figure so prominently in comedy? What fears and anxieties, monsters and
grotesques lurk beneath the festive surfaces and masks of the comic? And finally: what can we make of comedy today, in
what H. Frankfurt has identified as the age and culture of B.S.?? Did I mention that this will be fun, too? No joke here.
Seriously.
nature of the opposition (e.g., against imperialism, against Hollywood, against patriarchy, against conventional realism, etc.). Since it would be impossible to deal with all forms of oppositional cinematic expression in one semester, we will focus on examples from India (a paradigmatic case given that India is the world's largest producer of films per year). And, without trying to make overly broad and general claims about cinema and opposition, we will aim to discern the form and content of oppositional ideas in the films of key Indian directors: Bimal Roy, Satyajit Ray, Ritwik Ghatak, Mrinal Sen, Adoor Gopalakrishnan, and Shyam Benegal. Prior acquaintance with film terms and vocabulary is a definite advantage; interpretive skills expected. [Lecture-discussion; short papers, final exam.]

CSCL 3177 On Television
4 credit(s); Meets CLE req of Civic Life and Ethics
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 will help us understand how the role of 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 legitimize 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); Meets CLE req of Civic Life and Ethics
Instructor: Gill, Meredith Morgan
Description: This course examines television as a technology that should be neither completely dismissed (i.e., "Everything on TV is stupid") nor uncritically embraced. Television has a complex history that has served to both unite social groups and atomize and anesthetize individuals. Accordingly, we will approach television as a complex cultural institution that not only entertains, but also largely determines the stories we tell ourselves. We will study writings on television and specific TV shows from a variety of angles to understand the rise of American broadcast technologies, how race and class are crafted on TV, representations of gender and the home, postmodernity, the demise of taste, what constitutes reality? in our present historical moment, and changes in the televisual technologies.
Style: 50% Lecture, 50% Discussion.
Grading: 15% mid exam, 15% final exam, 50% reports/papers, 20% in-class presentation.

CSCL 3177 On Television
4 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Stiffler, Brad
Description: This course is designed to be a critical look at an often-unexamined medium, television. We will approach TV as an industry, a medium or mode of culture, a sometimes-maligned object of discourse, and a site of textual, social, and political practices. Our guiding principle will be that TV matters. And we will ask not just what ideas it produces, but, importantly, how it produces them and how those practices have changed over time. Starting in the postwar period, we will trace the emergence of television culture, mostly within the United States, and think about how this particular media institution shaped, and was shaped by, its social and historical context. Specifically, this portion will focus on how the television was constructed as a domestic appliance and was used as an instrument for producing and policing the ideal or normative family. Then, the course will follow the development of both popular, corporate programming and alternatives practices, like cable access, guerrilla TV, and public television, to the present day. We will also examine the unspoken assumptions about class, gender, race, and sexuality that sit behind the way that both academics and mainstream commentators talk about TV as the quintessential medium of mass culture, or the ?idiot box.? Engaging theoretical and analytical readings, this course will use class discussion, lecture, and written assignments to explore these critical frameworks. Additionally, we will screen and dissect episodes of individual programs, running the gamut from The Mary Tyler Moore Show to Roseanne to Parks and Recreation.

CSCL 3178W Documentary Cinema: History and Politics
4 credit(s); Meets CLE req of Writing Intensive
Instructor: Lovejoy, Alice Osborne
Description: This course will examine the history, form, and politics of nonfiction and documentary film from the turn of the twentieth century to the present. We will examine documentary's emergence, in the United States and globally, and its links to a range of social, political, and historical forces; throughout the semester, we will pay close attention to questions of production, circulation, and reception, and explore the complex power relations between filmmakers and their subjects.
Topics include, among others, war and documentary; state-sponsored documentary projects; ethnographic film; cinema verite/cinema direct; the essay film; propaganda; reenactment; documentary’s links to the avant garde.  

**Style:** 30% Lecture, 40% Film/Video, 30% Discussion.

**CSCL 3179 Reading Literary Movements**  
3 credit(s); Meets CLE req of Literature  
**Instructor:** Hudecova, Eva Ruth  
**Description:** Student may contact the instructor or department for information.

**CSCL 3321W Theories of Culture**  
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive  
**Instructor:** Hudecova, Eva Ruth  
**Description:** Student may contact the instructor or department for information.

**CSCL 3331 Science and Culture**  
3 credit(s); Meets CLE req of Arts/Humanities  
**Instructor:** Brown Jr, Robert L  
**Description:** Science and the Humanities centers on the struggle over truth, the methods, language and technologies used to articulate it, and the political systems within which it plays out. We'll read central works in the history / philosophy of science to support ‘case studies’ on science and society, including medicine(s), psychiatry, sexuality, food and nutrition, religious practice, and ecology / environmental practice. We'll examine systems of power and economics underlying the culture and science 'industries,' examining how work (in science and the humanities) creates both knowledge and the identities of the workers who make and use it. We'll discuss what counts as 'good' science, 'good' history of science and 'good' technical applications of scientific knowledge?and what makes them 'good,' and for whom. We will be working simultaneously in three dimensions, woven together throughout the course. The first dimension looks at how science and technology work?really. The second tries to theorize science and technology: their history, nature and place in society. The third raises the question of ethics in doing, describing and applying science. Our job is to get these three dimensions of the problem to talk to each other.  
**Style:** 10% Lecture, 30% Discussion, 40% Small Group Activities, 10% Student Presentation, 10% Web Based. Active learning at all times; every effort made never to bore any of us. 'Anyone? Bueller?, Bueller?'--Not.  
**Grading:** 20% reports/papers, 45% special projects, 5% class participation, 30% other evaluation. Blog mediated; many small, defined projects; active group work and presentations--do what we ask, and you'll do well.

**CSCL 3361 Visions of Nature: The Natural World and Political Thought**  
3 credit(s); Credit will not be granted if credit has been received for: EEB 3361; Meets CLE req of Environment  
**Instructor:** Gill, Meredith Morgan  
**Description:** This course examines the concept of nature as a cultural and political construct used to justify and contest how human and non-human animals live within and against ‘the world’. We will study the historical evolution of our modern concept of nature as well as the future of ‘the natural’ as a viable political category. In so doing, we will cover various historical, philosophical, literary, filmic, and biological visions of nature including: divine creation, nature as a mechanical structure, changing concepts of evolution, constructions of human nature, and the emergence of discourses on ecosystems.  
**Style:** 50% Lecture, 50% Discussion.

**CSCL 3456W Sexuality and Culture**  
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive  
**Instructor:** Lekas, Michelle Yvonne  
**Description:** What is ?sexuality?? Is it something natural and innate within us or is it something constructed and...
administered from the outside? Why do we care whether Bradley Cooper is gay, straight, or otherwise, or whether according to Star magazine? free and single Kim Kardashian participated in a wild sex orgy?? Does sexuality reveal the mystery of our "essential being," or does it reveal more about the cultural-historical moment defining it? We are shocked, shocked to see 4-year-old beauty queens or, as others have derisively called them, "prosti-tots," gyrating like strippers on stage, yet collectively we watch over and over again? courtesy of TLC, youtube and cable news? ? the most salacious (I mean most shocking?) parts! How is this related to our fascination with the televised capture? of accused predators?? Finally, how do we know if our sexual desires and experiences are "normal," and to whom or what do we turn for answers? Dr. Phil? Cosmo? Maxim? The DSM-IV? Looking beyond questions of representational truth, this course explores the modern history of sexuality in the West, examining and theorizing the relationship between the abstract, ever-changing ways in which we have understood it, and the concrete, material ways in which we have subsequently lived it. Readings will include the psychoanalytic writings of Sigmund Freud and Jessica Benjamin, the historical accounts of Thomas Laqueur and Patricia Hill Collins, and the historical-critical analyses of Michel Foucault and Anne Fausto-Sterling.

**Style:** 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.

**Grading:** 50% reports/papers, 10% quizzes, 20% written homework, 20% class participation.

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**CSCL 3456W Sexuality and Culture**

3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive

**Instructor:** Hadley, Matthew James

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

**CSCL 3458W The Body and the Politics of Representation**

3 credit(s); Meets CLE req of Historical Perspectives; 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 differ 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. 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.

**Grading:** 60% reports/papers, 10% quizzes, 10% attendance, 20% reflection paper.

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**CSCL 3461 Monsters, Robots, Cyborgs**

3 credit(s); Meets CLE req of Literature

**Instructor:** Hadley, Matthew James

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

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**CSCL 3465 Aliens**
CSCL 3472 Gay Men and Homophobia in American Culture  
Instructor: Cannavino, Thomas Patrick  
**Description:** "Sodomite," "invert," "deviant," "pervert," and "homosexual" are all terms that have been used in the West to name a kind of man who desires men or engages in sex with men, or both. This course focuses on a figure that emerged in the 1970s, following the riots at Stonewall in 1969: the "gay man." What does it mean to be "gay"? Is "queer" just a newer and edgier word that means the same thing or are there real differences between "gays," "queers," and "men who have sex with men"? How do these discursive constructs affect the ways we comprehend same-sex desire, the relationship between gender style and sexuality, and "homophobia" as a perverse reaction to effeminacy or gay sexuality? To approach these questions, we'll think critically about the ways the nineteenth-century invention of "sexuality" in the West has associated sexual desires and acts with a person's essential nature, as well as the strangely resilient nineteenth-century notion that male same-sex desire is a sort of "hermaphroditism of the soul," a joining together of feminine desires and a masculine body. We'll all do some original research in a major archive of GLBT history (right here on campus) over the course of the semester, and we'll study literature, visual culture, cinema, historical and cultural theory, and writings in public health and medicine as we interrogate why gay men and homosexuality are socially marginal but symbolically central, and thus capable of generating violent emotion and mobilizing elaborate means of censorship and containment.  
**Grading:** 10% mid exam, 10% final exam, 20% reports/papers, 20% special projects, 20% journal, 20% class participation.

CSCL 3621W Colonial and Postcolonial Literatures and Theory: 1700 to the Present  
Instructor: STAFF  
**Description:** Student may contact the instructor or department for information.

CSCL 3910 Topics in Cultural Studies and Comparative Literature: Sound Studies  
Instructor: Gopinath, Sumanth S  
**Description:** CSCL 3910 (Sound Studies) is an introductory course on the emerging field of sound studies, in which scholars investigate and critically examine sound as a broadly cultural phenomenon and as an object of historical inquiry. Countering a generally ocular bias within much of the humanities and social sciences, sound studies is an intersection of several fields of study, including cultural and social history, musicology and ethnomusicology, art history (esp. sound art and installation), media studies, research on sound design in audiovisual media (film, television, video games), disability studies, and philosophy and cultural theory (of sound and listening). (In its merging and combining of disciplines, sound studies appears, in the last instance, to be a form of cultural studies, although the two are of course not synonymous; it is perhaps best understood as an "auditory culture" studies parallel to the more established field of visual culture studies.) In this course, students will be required to master a body of knowledge (a representative selection of readings in sound studies), understand the way that sound as a broadly defined subject of study affects and redirects scholarship in a variety of scholarly fields, and demonstrate effective communication by writing short response papers and two lengthier essays over the course of the semester.

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

CSCL 3993 Directed Study  
Instructor: Ganguly, Keya  
**Description:** Student may contact the instructor or department for information.
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Brown Jr, Robert L
Description: Student may contact the instructor or department for information.

CSCL 3993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Thomas, Gary Craig
Description: Student may contact the instructor or department for information.

CSCL 3993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Brennan, Timothy Andres
Description: Student may contact the instructor or department for information.

CSCL 3993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Casarino, Cesare
Description: Student may contact the instructor or department for information.

CSCL 3993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Gallope, Michael
Description: Student may contact the instructor or department for information.

CSCL 3993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Pepper, Thomas Adam
Description: Student may contact the instructor or department for information.

CSCL 3993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Stoddard, Matthew Donald
Description: Student may contact the instructor or department for information.

CSCL 3993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Bizri, Hisham M.
Description: Student may contact the instructor or department for information.

CSCL 3993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Tageldin, Shaden M
Description: Student may contact the instructor or department for information.

CSCL 3993 Directed Study
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Lovejoy, Alice Osborne
Description: Student may contact the instructor or department for information.

CSCL 4944H Honors Thesis
A-F only, 3 credit(s);
Instructor: Cucullu, Lois B
Description: Student may contact the instructor or department for information.

CSCL 4944H Honors Thesis
A-F only, 3 credit(s);
Instructor: Hanneken, Jaime Elizabeth
Description: Student may contact the instructor or department for information.
CSCL 5256W Suburbia  
3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Wlodarczyk, Holley Ann  
Description: LOVE IT OR HATE IT, suburbia is a prominent part of the physical and cultural North American landscape, one increasingly replicated and adapted internationally. Despite stereotypical views painting suburbia as bland, static and conformist, real suburban places are often complex, dynamic, and increasingly diverse sites representing evolving aspirations for and investments in the American Dream. From its origins in 18th century England through 19th century picturesque enclaves in New England, mid-twentieth century tract homes through millennial McMansions, ideals of rus in urbe (?country in the city?) through smart growth initiatives, this class will take a semester-long tour through the built environment and cultural construction of SUBURBIA, critically examining and engaging? ? the historical development of suburbia, including influences on and changes in planning paradigms, building processes, architectural styles, transportation systems, and geographical contexts ? ideological underpinnings of suburban desire, such as individualism, community, property, privacy, domesticity, progress, nostalgia, nature, consumption, and upward mobility ? social roles and demographic trends in suburban residency, especially relating to family, gender, class, race, politics, religion, generation, and immigration ? representations of suburbia and suburban lifestyles in popular culture and critical media, including film, television, music, magazines, photography, painting, sculpture, comics, novels, and games ? issues regarding suburbia?s legacy and possible future, as well as current concerns like ecology, energy, technology, infrastructure, public policy, economic shifts, social capital and cultural vibrancy Also, we will analyze our own relation to suburbia?as residents, neighbors, dreamers, critics, and scholars.

CSCL 5305 Vision and Visuality: An Intellectual History  
A-F only, 3 credit(s);  
Instructor: Ganguly, Keya  
Description: This is a lecture-discussion class for advanced undergraduates and graduate students. Our goal will be to tease out the meaning, history, and ramifications of the terms "vision" and "visuality"; along the way, we will investigate the concept of perception and try to determine how ideologies of perception have shaped aesthetics, politics, and social experience in the European tradition, broadly. More specifically, we will examine the reasons why modernity comes to be characterized as ocularcentric or a scopic regime. We cannot hope to gain a comprehensive grasp of discourses relating to perception and consciousness in the space of only a semester, but we can nonetheless aspire to a substantive engagement with the history of ideas bearing on the dominance of vision within a modern hierarchy of senses.

CSCL 5555 Introduction to Semiotics  
3 credit(s); Credit will not be granted if credit has been received for: CL 5555;  
Instructor: Pepper, Thomas Adam  
Description: This course is a rigorous introduction to the thought of the sign during this last century. The emphasis is on the word "thought", that is to say, on the way in which semiotics, far from being an isolated discipline, is essentially related to all its neighbors, including: anthropology, feminism, linguistics, literature, marxism, philosophy, psychoanalysis. Readings include: Althusser, Austin, Barthes, Borges, Deleuze, Derrida, Eichenbaum, Foucault, Freud, Jakobson, Kristeva, Mitchell and Rose, Lacan, Levinas, Levi-Strauss, Lotman, Peirce, Saussure, Shklovsky, Wimsatt and Beardsley, Winnicott.  
Style: 70% Lecture, 30% Discussion.  
Grading: 70% reports/papers, 10% in-class presentation, 20% class participation.  
Exam Format: Paper

CSCL 5833 Marx, Freud, Nietzsche: Intellectual Foundations  
3 credit(s);  
Instructor: Brennan, Timothy Andres  
Description: This course will attempt to give you grounding in the thinkers who helped define modernity: Marx, Nietzsche, Freud. We will examine the central tenets of their thought, strive to define the terms associated with their theories, give a portrait of their careers as a whole (against the historical background of their times) and discuss their respective places in intellectual history, including their subsequent influences. Given the time we have, the course cannot hope to be comprehensive. It will from beginning to end be tantalizingly inadequate, and will at least, hopefully, set you off on your course of study by giving you direction, rather than bring it to completion. One is dealing here with a large and fluctuating body of work, whose later interpreters have been legion. The course should, however, be a good preparation for discussing intelligently what is meant by Marxism, psychoanalysis, and the Nietzschean tradition. Mode of Work: As we collectively work through these readings, each section begins with a ?global? perspective of their theories. The section on Freud, for example, will open with a recounting of the major features of his career in order to place him, intellectually and historically. We will then go on to characterize, collectively, the major features of his general theory, citing important or defining terms, trace the changes or refinements that his theory underwent, and attempt to account for his contribution by showing both what it was, and what it wasn?t, within the human sciences. With this general vision firmly in view, we will then have time to go back to wrestle in more detail with a selection of his major work, dwelling on at least one longer work, and several shorter works (or sections of longer works.) The point of the procedure is both to show some of the range of thought, as well as the nuances of some of the key concepts. With some reluctance, I have structured the course chronologically so that it might become clearer who was taking what from whom, and who was reacting to the ideas of others. Both Freud and
The work of Immanuel Kant (1724-1804) is widely considered as marking a new era in Western thought. Kant himself considered his critical philosophy a "Copernican revolution": it reversed entirely and counter-intuitively the relation of subject and world. According to Kant, we recognize the world, and we experience objects as beautiful or certain actions as moral not because of their objective qualities, but because of our subjective capacities. In other words, the world conforms to us, not the other way round. Yet should this prove to be true, the consequences would be severe. More than a few of Kant's contemporaries were plunged into deep crisis through an encounter with his critical philosophy. This course will provide an introduction to Kant's philosophy. Through lectures, close readings and group work we will reconstruct themes, motifs and arguments of Kant's thinking, drawing on the three major critical works as well as on earlier, less known philosophical essays. You will eventually be able not only to comprehend (yet hopefully not re-live) the sense of crisis that came along with Kant's philosophy, but also understand its lasting impact.

**Grading:**

- **Style:** 60% Lecture, 20% Discussion, 20% Small Group Activities.
- **Grading:** 50% reports/papers, 50% class participation.
CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Labidi, Imed
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Ganguly, Keya
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Brown Jr, Robert L
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Thomas, Gary Craig
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Brennan, Timothy Andres
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Casarino, Cesare
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Gallope, Michael
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Pepper, Thomas Adam
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Cucullu, Lois B
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Bizri, Hisham M.
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Tageldin, Shaden M
Description: Student may contact the instructor or department for information.

CSCL 5993 Directed Study
1-3 credit(s), max credits 9, 9 completions allowed;
Instructor: Lovejoy, Alice Osborne
Description: Student may contact the instructor or department for information.
CI 1001 Introduction to the Elementary School  
A-F only, 3 credit(s);  
Instructor: Rosebrook, Cheryl K  
Description: CI 1001 - Introduction to the Elementary School (3.0 cr; A-F or Aud, fall, spring, every year) Introduction to the Elementary School is intended to be a beginning course for undergraduate students considering a career in the field of education or a Foundations of Education major. The class examines various aspects of elementary schools and elementary teaching with an emphasis on urban elementary settings. Contemporary students and families, school organization, standards, assessment, policy, culture, diversity, and the role of the teacher are addressed. Issues of equity and equality are explored throughout the course. Visits to educational settings provide key experiences.

CI 1001 Introduction to the Elementary School  
A-F only, 3 credit(s);  
Instructor: LoBello, Jana  
Description: Student may contact the instructor or department for information.

CI 1001 Introduction to the Elementary School  
A-F only, 3 credit(s);  
Instructor: Young, Amy I  
Description: Student may contact the instructor or department for information.

CI 2311W Introduction to Technology and Ethics in Society  
3 credit(s); credit will not be granted if credit already received for: WHRE 3011W or CI 3311W Credit will not be granted if credit has been received for: CI 4311W; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive  
Instructor: Schwartz, Derek E  
Description: Student may contact the instructor or department for information.

CI 2311W Introduction to Technology and Ethics in Society  
3 credit(s); credit will not be granted if credit already received for: WHRE 3011W or CI 3311W Credit will not be granted if credit has been received for: CI 4311W; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive  
Instructor: Lin, Jing-Huey  
Description: Student may contact the instructor or department for information.

CI 2311W Introduction to Technology and Ethics in Society  
3 credit(s); credit will not be granted if credit already received for: WHRE 3011W or CI 3311W Credit will not be granted if credit has been received for: CI 4311W; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive  
Instructor: Koivula, Matti Juhani  
Description: Student may contact the instructor or department for information.

CI 2312 Sex, Drugs, and the Internet: Educational Perspectives  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 4312; Meets CLE req of Technology and Society  
Instructor: Kennedy, Jolie  
Description: Student may contact the instructor or department for information.

CI 2312 Sex, Drugs, and the Internet: Educational Perspectives  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 4312; Meets CLE req of Technology and Society  
Instructor: Koseoglu, Suzan  
Description: This course fulfills the University of Minnesota's Liberal Education Technology and Society theme requirement. In this course, we will focus on the Internet and technologies inclusive within the online environment as we critique the advances in these technologies and their profound impact on society, particularly on children and teens. We will explore various specific online technologies (for example, social networking sites, blogs, YouTube, Second Life) in order to understand what they are, how they are used, and their advantages and disadvantages. Further, we will discuss our responsibility to be thoughtful consumers of these new Internet technologies as we seek to become informed and engaged citizens. We will reflect upon the complex and compelling ethical issues raised by technological change and its effects on
society. You will need to become competent with the use of several technology applications for this course. We will be using Ning for our course Website and Engrade for our online gradebook. We will also be working with a variety of tools such as Google Docs, VoiceThread, FlipGrid, and QuickTime Pro in order to interact online in alternative, engaging ways. This course is scheduled to meet online only and there will be no face-to-face (F2F) sessions. Please be aware that there will be numerous assignments in order to complete the requirements for this course. We will also have regular discussion activities that will help you critically reflect on the readings and issues we are exploring. If you have good self-organization skills, enjoy actively participating in class discussions, and have a sincere interest in learning more about web based technologies and their impact on society, this course may be a good fit for you!

**Style:** 50% Discussion, 50% Student Presentation. This class is 100% online. There won't be any face-to-face meetings.

**Grading:** 50% special projects, 50% class participation. Percentages are rough estimates. Your participation in the weekly discussions will be graded on both the quantity and quality of your postings or contributions.

**Exam Format:** We don't have mid-term or final exams. Individual assignments are project-based.

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**CI 2312 Sex, Drugs, and the Internet: Educational Perspectives**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 4312; Meets CLE req of Technology and Society

**Instructor:** Pazurek, Angelica

**Description:** This discussion-based course is designed as an introductory exploration of the current dangers lurking on the Internet, particularly for children, and those which could potentially arise with future developments and innovations. A humanitarian perspective will provide the lens by which we will examine universal concerns and explore strategies and measures we can take in the community as well as in educational institutions to combat these dangers. As we investigate the impact of online technologies within educational environments, we will also focus our attention on their potential for teaching and learning. All topics will be introduced and discussed in terms of current educational practices.

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**CI 2312 Sex, Drugs, and the Internet: Educational Perspectives**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 4312; Meets CLE req of Technology and Society

**Instructor:** Zhang, Shaomeng

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

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**CI 2312 Sex, Drugs, and the Internet: Educational Perspectives**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 4312; Meets CLE req of Technology and Society

**Instructor:** North, Sarah

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

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**CI 3001 Survey of Art Activities**

A-F only, 2 credit(s);

**Instructor:** Johnson, Jeremy L

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

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**CI 3001 Survey of Art Activities**

A-F only, 2 credit(s);

**Instructor:** Blanck, Christian Robert

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

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**CI 3211 Introduction to Elementary Teaching**

A-F only, 3 credit(s);

**Instructor:** Byrn, Katherine Margaret

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

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**CI 3211 Introduction to Elementary Teaching**

A-F only, 3 credit(s);

**Instructor:** Gast, Kelly

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

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**CI 3212 Practicum: Elementary Teaching**

S-N only, 2 credit(s);

**Instructor:** Gast, Kelly

**Description:** Student may contact the instructor or department for information.
CI 3283 Practicum: Special Education K-6  
S-N only, 2 credit(s);  
Instructor: Pierce, Becca L.  
Description: Student may contact the instructor or department for information.

CI 3401W Diversity in Children’s Literature  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Rogers, Aimee A  
Description: Student may contact the instructor or department for information.

CI 3401W Diversity in Children’s Literature  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Laster, Lori A  
Description: Student may contact the instructor or department for information.

CI 3401W Diversity in Children’s Literature  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Oziewicz, Marek Cezary  
Description: Student may contact the instructor or department for information.

CI 3610 Linguistics for Teachers  
A-F only, 3 credit(s); Meets CLE req of Social Sciences  
Instructor: Engman, Melissa M  
Description: Student may contact the instructor or department for information.

CI 3610 Linguistics for Teachers  
A-F only, 3 credit(s); Meets CLE req of Social Sciences  
Instructor: Arnal, Martina  
Description: Student may contact the instructor or department for information.

CI 3611W Basics in Teaching English as a Second Language  
OPT No Aud, 4 credit(s); Meets CLE req of Writing Intensive  
Instructor: Watson, Jill Ann  
Description: Student may contact the instructor or department for information.

CI 3611W Basics in Teaching English as a Second Language  
OPT No Aud, 4 credit(s); Meets CLE req of Writing Intensive  
Instructor: Vanek, Jenifer Baker  
Description: Student may contact the instructor or department for information.

CI 3612 Introduction to Pronunciation and Grammar for ESL Teachers  
OPT No Aud, 4 credit(s);  
Instructor: Beers, Barbara Lee  
Description: Student may contact the instructor or department for information.

CI 3612 Introduction to Pronunciation and Grammar for ESL Teachers  
OPT No Aud, 4 credit(s);  
Instructor: Lazaraton, Anne  
Description: Student may contact the instructor or department for information.

CI 3613 Practical Language Learning for International Communication  
OPT No Aud, 3 credit(s);  
Instructor: Gyendina, Mariya L  
Description: Student may contact the instructor or department for information.

CI 4311W Technology and Ethics in Society  
3 credit(s); credit will not be granted if credit already received for: CI 5311, WHRE 5011W  
Credit will not be granted if credit has been received for: CI 2311W; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
CI 4311W Technology and Ethics in Society
3 credit(s); credit will not be granted if credit already received for: CI 5311, WHRE 5011W
Credit will not be granted if credit has been received for: CI 2311W; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
Instructor: Lin, Jing-Huey
Description: Student may contact the instructor or department for information.

CI 4312 Sex, Drugs, and the Internet: Educational Perspectives
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 2312; Meets CLE req of Technology and Society
Instructor: Kennedy, Jolie
Description: Student may contact the instructor or department for information.

CI 4312 Sex, Drugs, and the Internet: Educational Perspectives
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 2312; Meets CLE req of Technology and Society
Instructor: Koivula, Matti Juhani
Description: This course fulfills the University of Minnesota's Liberal Education Technology and Society theme requirement. In this course, we will focus on the Internet and technologies inclusive within the online environment as we critique the advances in these technologies and their profound impact on society, particularly on children and teens. We will explore various specific online technologies (for example, social networking sites, blogs, YouTube, Second Life) in order to understand what they are, how they are used, and their advantages and disadvantages. Further, we will discuss our responsibility to be thoughtful consumers of these new Internet technologies as we seek to become informed and engaged citizens. We will reflect upon the complex and compelling ethical issues raised by technological change and its effects on society. You will need to become competent with the use of several technology applications for this course. We will be using Ning for our course Website and Engrade for our online gradebook. We will also be working with a variety of tools such as Google Docs, VoiceThread, FlipGrid, and QuickTime Pro in order to interact online in alternative, engaging ways. This course is scheduled to meet online only and there will be no face-to-face (F2F) sessions. Please be aware that there will be numerous assignments in order to complete the requirements for this course. We will also have regular discussion activities that will help you critically reflect on the readings and issues we are exploring. If you have good self-organization skills, enjoy actively participating in class discussions, and have a sincere interest in learning more about web based technologies and their impact on society, this course may be a good fit for you!
Style: 50% Discussion, 50% Student Presentation. This class is 100% online. There won't be any face-to-face meetings.
Grading: 50% special projects, 50% class participation. Percentages are rough estimates. Your participation in the weekly discussions will be graded on both the quantity and quality of your postings or contributions.
Exam Format: We don't have mid-term or final exams. Individual assignments are project-based.

CI 4312 Sex, Drugs, and the Internet: Educational Perspectives
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 2312; Meets CLE req of Technology and Society
Instructor: Pazurek, Angelica
Description: This discussion-based course is designed as a critique and analysis of the current dangers lurking on the Internet, particularly for children, and those which could potentially arise with future developments and innovations. A humanitarian perspective will provide the lens by which we will examine universal concerns and explore strategies and measures we can take in the community as well as in educational institutions to combat these dangers. As we investigate the impact of online technologies within educational environments, we will also focus our attention on their potential for teaching and learning. All topics will be introduced and discussed in terms of current educational practices.

CI 4312 Sex, Drugs, and the Internet: Educational Perspectives
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 2312; Meets CLE req of Technology and Society
Instructor: Zhang, Shaomeng
CI 4312 Sex, Drugs, and the Internet: Educational Perspectives  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: CI 2312; Meets CLE req of Technology and Society  
Instructor: North, Sarah  
Description: Student may contact the instructor or department for information.

CI 4413 Practicum: Working With Developing Readers  
S-N only, 2 credit(s);  
Instructor: Allen, Kathryn Elizabeth Lawyer  
Description: Student may contact the instructor or department for information.

CI 4413 Practicum: Working With Developing Readers  
S-N only, 2 credit(s);  
Instructor: Ortmann, Lisa Louise  
Description: Student may contact the instructor or department for information.

CI 5008 Theory and Practice of Teaching Art in Elementary Schools  
A-F only, 1-2 credit(s), max credits 3, 1 completion allowed;  
Instructor: Bequette, James W  
Description: Student may contact the instructor or department for information.

CI 5097 Student Teaching in Art Education  
S-N only, 8 credit(s);  
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);  
Instructor: McManimon, Shannon  
Description: Student may contact the instructor or department for information.

CI 5181 Clinical Experience in Elementary School Teaching  
S-N only, 2-10 credit(s), max credits 30, 3 completions allowed;  
Instructor: Carlson, Ann Ruhl  
Description: Student may contact the instructor or department for information.

CI 5186 School-Related Projects  
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;  
Instructor: STAFF  
Description: Research or evaluation project related to teaching, curriculum, or other aspect of schooling. Approved and supervised by faculty adviser.

CI 5187 Practicum: Improvement of Teaching in Elementary or PreKindergarten Schools  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;
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;
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 5285 Clinical Experience in Elementary School Teaching
S-N only, 12 credit(s), max credits 24;
Instructor: Byrn, Katherine Margaret
Description: Student may contact the instructor or department for information.

CI 5286 Student Teaching Seminar: Elementary Education
A-F only, 3 credit(s), max credits 6;
Instructor: Wiley, Bethann Marie
Description: Student may contact the instructor or department for information.

CI 5286 Student Teaching Seminar: Elementary Education
A-F only, 3 credit(s), max credits 6;
Instructor: Robbins, Lois M
Description: Student may contact the instructor or department for information.

CI 5286 Student Teaching Seminar: Elementary Education
A-F only, 3 credit(s), max credits 6;
Instructor: Benegas, Michelle Elizabeth
Description: Student may contact the instructor or department for information.

CI 5287 Capstone Project: Improvement of Teaching in Elementary and Pre-Kindergarten Schools
A-F only, 3 credit(s);
Instructor: Peterson, Debra Stevens
Description: Student may contact the instructor or department for information.

CI 5287 Capstone Project: Improvement of Teaching in Elementary and Pre-Kindergarten Schools
A-F only, 3 credit(s);
Instructor: Mitchell, Kathleen
Description: Student may contact the instructor or department for information.

CI 5301 Foundations of Computer Applications for Business and Education
A-F only, 3 credit(s);
Instructor: Isaacson, Kris
Description: Student may contact the instructor or department for information.

CI 5301 Foundations of Computer Applications for Business and Education
A-F only, 3 credit(s);
Instructor: Ouyang, Fan
Description: Student may contact the instructor or department for information.

CI 5301 Foundations of Computer Applications for Business and Education
A-F only, 3 credit(s);
Instructor: Porcaro, David
Description: Student may contact the instructor or department for information.

CI 5323 Online Learning Communities
A-F only, 3 credit(s);
Instructor: Pazurek, Angelica
Description: Student may contact the instructor or department for information.
CI 5325 Designing and Developing Online Distance Learning
A-F only, 3 credit(s);
Instructor: Doering, Aaron H
Description: Students research, use, and evaluate technologies for distance learning and design their own learning environments.

CI 5361 Teaching and Learning with the Internet
3 credit(s);
Instructor: Scharber, Cassandra
Description: Capabilities of the Internet for professional development and instructional use. Use of specific client/server software. Instructional issues/opportunities. Implications for K-12 student involvement and classroom management. Web page development by teachers and their students.

CI 5362 Foundations of Interactive Design for Web-based Learning
3 credit(s);
Instructor: Edwards, Nathan D
Description: Student may contact the instructor or department for information.

CI 5390 Learning Technologies Field Experiences
S-N only, 2 credit(s);
Instructor: McGill, Chuck
Description: Student may contact the instructor or department for information.

CI 5410 Special Topics in the Teaching of Literacy
3 credit(s), max credits 12, 12 completions allowed;
Instructor: Swiss, Thom
Description: Teaching Poetry and Creative Writing. 5410. //This is an ONLINE COURSE. There are no on-campus meetings.// 5410: Interested in thinking about creative writing in the classroom and in the community? Learning how to teach poetry and fiction and developing helpful assignments for students? Finally, do you want to try your own hand at creative writing? The course will focus on the topics noted above -- with readings, pedagogical theories, poems and stories, your own creative writing, and so on. You will learn how to 'workshop' creative writing, improve others' work (and your own), make assignments, and encourage writing in general.// Professor Thom Swiss, the instructor, is a writer and critic in C&I's Culture and Teaching Program. // There are TWO required books for the course; you will need them by the end of the first week of class. // 1.) IN THE PALM OF YOUR HAND Author: KOWIT ; Edition: ; ISBN: 9780884481492 Publisher: TILBURY HOUSE PUB.....2) WHAT IF? Author: Anne bernays et al ; Edition: ; ISBN: 0062720066 Publisher: william morrow.// END Style: 100% Web Based. Online Class. Assignments generally due weekly on Tuesday OR Sunday at midnight.
Grading: 75% written homework, 25% class participation. No exams. // Instead, your own written work, including responses to readings/ comments to colleagues/ your own creative writing/assignments for students.

CI 5413 Foundations of Reading
A-F only, 3 credit(s);
Instructor: Allen, Kathryn Elizabeth Lawyer
Description: Student may contact the instructor or department for information.

CI 5413 Foundations of Reading
A-F only, 3 credit(s);
Instructor: Ortmann, Lisa Louise
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);
Instructor: Martin-Kerr, Keitha-Gail
Description: Student may contact the instructor or department for information.

CI 5426 Language Arts Instruction in the Elementary Grades
CI 5433 Instructional Leadership in Reading for the Middle and Secondary Grades  
A-F only, 3 credit(s);  
Instructor: Martin-Kerr, Keitha-Gail  
Description: Student may contact the instructor or department for information.

CI 5461 Teaching Composition in the Secondary School  
A-F only, 2 credit(s);  
Instructor: Lewis, Cynthia  
Description: Student may contact the instructor or department for information.

CI 5481 Developments in Teaching English and Speech  
A-F only, 3 credit(s);  
Instructor: Pyscher, Tracey Michelle  

CI 5496 Directed Experiences in Teaching English  
S-N only, 8 credit(s);  
Instructor: STAFF  
Description: Student teaching/clinical experience for English post-baccalaureate students only.

CI 5502 Science Instruction in the Elementary Grades  
A-F only, 3 credit(s);  
Instructor: Billington, Barbara Lynne  
Description: Student may contact the instructor or department for information.

CI 5532 Teaching Secondary School Science  
A-F only, 3 credit(s);  
Instructor: Billington, Barbara Lynne  
Description: Student may contact the instructor or department for information.

CI 5535 Foundations of Science Education  
A-F only, 3 credit(s);  
Instructor: Finley, Fred N  
Description: Analysis of present science teaching practices in light of historical and philosophical foundations of science education.

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);  
Instructor: Ranney, 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);  
Instructor: Stone PhD, Karla  
Description: Student may contact the instructor or department for information.

CI 5645 Teaching English Learners in the Elementary Classroom  
A-F only, 3 credit(s);
CI 5648 Advanced Practices in Teaching Academic Language
A-F only, 3 credit(s);
Instructor: Ranney,Susan Elaine
Description: Student may contact the instructor or department for information.

CI 5649 Language Analysis for ESL Teaching in Higher Ed
OPT No Aud, 4 credit(s);
Instructor: Tarone,Elaine E
Description: Student may contact the instructor or department for information.

CI 5654 Practicum in Teaching English as a Second Language (ESL) in Higher Education
S-N only, 6 credit(s);
Instructor: Anderson,Michael Einar
Description: Student may contact the instructor or department for information.

CI 5657 Teaching Speaking and Listening in Second Language Classrooms
A-F only, 3 credit(s);
Instructor: Ennser-Kananen,Johanna
Description: Student may contact the instructor or department for information.

CI 5662 Second Language Curriculum Design
A-F only, 3 credit(s);
Instructor: Bigelow,Martha
Description: Student may contact the instructor or department for information.

CI 5671 Curriculum Development and Assessment in Dual Language/Immersion Classrooms
3 credit(s);
Instructor: Tedick PhD,Diane J
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;
Instructor: STAFF
Description: Individual or group work on curricular, instructional, or assessment problems.

CI 5696 Practicum: Teaching World Languages and Cultures in Elementary Schools
2-6 credit(s), max credits 6, 1 completion allowed;
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;
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;
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, 3-12 credit(s), max credits 16;
Instructor: Stone PhD,Karla
Description: Student may contact the instructor or department for information.
CI 5702 Social Studies Instruction in the Elementary Grades
A-F only, 3 credit(s);
Instructor: Berken, Shelley
Description: Student may contact the instructor or department for information.

CI 5744 Seminar: Reflecting on Professional Development in Social Studies Education
A-F only, 3 credit(s);
Instructor: Beach, Todd A.
Description: Student may contact the instructor or department for information.

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 5762 Developing Civic Discourse in the Social Studies
A-F only, 3 credit(s);
Instructor: Avery, Patricia Grant
Description: Student may contact the instructor or department for information.

CI 5782 Clinical Experiences in Teaching Social Studies
S-N only, 1-8 credit(s), max credits 16;
Instructor: Torres, Jill
Description: Student may contact the instructor or department for information.

CI 5822 Mathematics Instruction in the Elementary Grades
A-F only, 3 credit(s);
Instructor: Cramer, Kathleen Ann
Description: Student may contact the instructor or department for information.

CI 8095 Problems: Art Education
1-12 credit(s), max credits 12, 1 completion allowed;
Instructor: Bequette, James W
Description: Student may contact the instructor or department for information.

CI 8131 Curriculum and Instruction Core: Critical Examination of Curriculum in Context
A-F only, 3 credit(s);
Instructor: Mayo Jr, J.B.
Description: Student may contact the instructor or department for information.

CI 8132 Curriculum and Instruction Core: Teaching Theory and Research
A-F only, 3 credit(s);
Instructor: Hermes, Mary Rose
Description: Student may contact the instructor or department for information.

CI 8133 Research Methods in Curriculum and Instruction
A-F only, 3 credit(s);
Instructor: Avery, Patricia Grant
Description: Student may contact the instructor or department for information.

CI 8148 Conducting Qualitative Studies in Educational Contexts
3 credit(s);
Instructor: King PhD, Kendall Amy
Description: Student may contact the instructor or department for information.

CI 8149 Qualitative Research: Coding, Analysis, Interpretation, and Writing
A-F only, 3 credit(s);
CI 8150 Research Topics Curr & Instruct  
3 credit(s), max credits 12, 12 completions allowed; 
Instructor: Hermes, Mary Rose 
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; 
Instructor: Bequette, James W 
Description: Student may contact the instructor or department for information.

CI 8150 Research Topics Curr & Instruct  
1-6 credit(s), max credits 12, 12 completions allowed; 
Instructor: Lewis, Cynthia 
Description: Student may contact the instructor or department for information.

CI 8162 Research Experience II: Data Analysis and Manuscript Preparation  
OPT No Aud, 3 credit(s); 
Instructor: Bigelow, Martha 
Description: Student may contact the instructor or department for information.

CI 8195 Problems: Improvement of Instruction  
1-6 credit(s), max credits 6, 1 completion allowed; 
Instructor: Avery, Patricia Grant 
Description: Student may contact the instructor or department for information.

CI 8196 Practicum in Teaching in Colleges of Education  
1 credit(s); 
Instructor: Avery, Patricia Grant 
Description: Student may contact the instructor or department for information.

CI 8198 Problems: Teacher Education  
1-6 credit(s), max credits 12, 12 completions allowed; 
Instructor: Vagle, Mark D 
Description: Student may contact the instructor or department for information.

CI 8412 Research in Reading  
3 credit(s), max credits 6; 
Instructor: Helman, Lori A 
Description: Research in Reading: Foundational Processes and Evolving Contexts This seminar course is designed for students in literacy education, curriculum and instruction, teacher education, and related fields. The class provides students with foundational knowledge of reading and writing development, language variation and its implications for literacy learning, current literacy assessment practices (their applications and limitations), and the evolving role of digital literacies on literacy learning, teaching, and engagement. Students will critically examine the tensions in a number of current literacy-related topics such as asset/deficit-based teaching, multilingual classroom ecologies/standardized curricula, and social/individualistic learning arrangements. Participants will read and inquire into the theories and perspectives of a number of leading literacy researchers, and apply their ideas to current educational contexts.  
Style: 10% Lecture, 50% Discussion, 15% Small Group Activities, 20% Student Presentation, 5% Web Based.

CI 8492 Readings in English Education and Reading  
1-3 credit(s), max credits 10, 10 completions allowed; 
Instructor: O’Brien, David 
Description: Student may contact the instructor or department for information.

CI 8495 Problems: Teaching English and Reading  
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed; 
Instructor: Lensmire, Timothy J. 
Description: Student may contact the instructor or department for information.
CI 8570 Advanced Topics in Science Education
A-F only, 3 credit(s), max credits 6, 6 completions allowed;
Instructor: Finley, Fred N
Description: Student may contact the instructor or department for information.

CI 8571 Equity, Policy, and Social Justice in Science Education
OPT No Aud, 3 credit(s);
Instructor: Clarkson, Lesa M
Description: Student may contact the instructor or department for information.

CI 8595 Problems: Science Education
1-6 credit(s), max credits 12, 12 completions allowed;
Instructor: Finley, Fred N
Description: Student may contact the instructor or department for information.

CI 8650 Seminar: Special Topics in Second Languages and Cultures Research
3 credit(s), max credits 6, 6 completions allowed;
Instructor: Bigelow, Martha
Description: Student may contact the instructor or department for information.

CI 8795 Problems: Social Studies Education
1-6 credit(s), max credits 12, 12 completions allowed;
Instructor: Avery, Patricia Grant
Description: Student may contact the instructor or department for information.

CI 8796 Research Internship in Social Studies Education
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Avery, Patricia Grant
Description: Student may contact the instructor or department for information.

Dakota 1122 Beginning Dakota II
5 credit(s); 1121 Credit will not be granted if credit has been received for: DAKO 4122;
Instructor: Bendickson, Wayne Joseph
Description: Student may contact the instructor or department for information.

Dakota 3124 Intermediate Dakota II
5 credit(s); 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 3127 Dakota Language for Teachers
A-F only, 3 credit(s);
Instructor: McKay, Neil Troy
Description: Student may contact the instructor or department for information.

Dakota 4122 Beginning Dakota II
3 credit(s); [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); 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.

Dance Barbara Barker Center for Dance
Dnce 1001 Modern Dance Technique 1
1 credit(s);
Instructor: Davies, Angharad Sian
Description: DNCE 1001 Modern 1 Fall and Spring Semester: This course is an introductory approach to contemporary modern dance technique. You will explore the specifics of space, time, and energy. At the same time, you will work with fundamental modern dance vocabulary in order to become a versatile and technically sound dancer. Class work will emphasize anatomical awareness and articulation, connection to the floor, strength and flexibility, musicality, and clarity of movement. We will focus on making choices with intention; following improvisational impulses; on using technique as a tool for communication; and on finding our own individual styles as compelling and magnetic performers.

Dnce 1002 Modern Dance Technique 2
1 credit(s);
Instructor: Davies, Angharad Sian
Description: DNCE 1002 Modern 2: This course is the second part of an introductory approach to contemporary modern dance technique. You will explore the specifics of space, time, and energy. At the same time, you will work with fundamental modern dance vocabulary in order to become a versatile and technically sound dancer. Students will explore partnering work, improvisational scores, compositional assignments, and set phrase material. Class work will emphasize anatomical awareness and articulation, connection to the floor, strength and flexibility, musicality, and clarity of movement. We will focus on making choices with intention; on using technique as a tool for communication; and on finding our own individual styles as compelling and magnetic performers.

Dnce 1020 Modern Dance Technique 4
1-2 credit(s), max credits 4;
Instructor: Thompson, Erin D
Description: This is the fourth of eight levels of modern dance technique offered in the University of Minnesota Dance Program. Class work is based on alignment influenced by the Alexander Technique and the Klein Technique, free use of breath, concrete hands-on instruction in yielding the plie into the ground, healthy use of turn-out, articulation of bones and joints, clarity of physical and visual focus, efficiency and power of movement. The ultimate goal of this class is for dancers to fly through the space and across the ground with ease, availability and power. Class consists of in-place warm-ups, specific technical exercises, and dance phrases applying the technique addressed. All classes are accompanied by live music. Friday classes involve work focused on enhancing the student's understanding of experiential anatomy and internal awareness. Active rest, body mapping, improvisation and Authentic Movement are used as tools to this end.

Dnce 1102 Ballet Technique 2
1 credit(s);
Instructor: Wallum, Tina Anderson-
Description: This class is the second of a two-semester of fundamental Classical Ballet technique. Class work is based on the practical application of the principles of classical ballet technique, including body alignment and placement, turn-out, weight distribution, stance, transfer of weight, squareness, counter pull, counter balance, strength, flexibility, coordination and musicality. Each principle will be reintroduced separately and in a progression. Class work will consist of barre and center work with the emphasis on simplicity, repetition and creativity. Combinations will be a little longer in duration than from Ballet 1. By the end of the semester students should be able to understand a basic level of vocabulary and demonstrate it with ease and confidence.

Dnce 1120 Ballet Technique 4
2 credit(s), max credits 4;
Instructor: Wallum, Tina Anderson-
Description: This is the second of a two-semester sequence in beginning ballet technique-level 4 in an eight level sequence. Class work is based on the practical application of the principles of classical ballet technique, including body alignment and placement, turn-out, weight distribution, stance, transfer of weight, squareness, counter pull, counter balance, strength, flexibility, coordination and musicality. Students will integrate these principles to create a solid ballet technique. Class work will consist of barre work that is needed for center work. Center work will consist of ever changing combinations that practice adagio, basic turns, petite and grand allegro. By the end of the semester students should be able to execute a beginning level of 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.

Dnce 1202 Jazz Technique 2
1 credit(s);
Instructor: Grotting, Karla Kaye
Description: Dnce 1202 Jazz Technique 2 Grading basis/credits: 1 credit(s) Prereq: 1201 or audition or instr consent
Description: This is the second of a six-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. This course will continue an overview of the history of jazz music and dance styles. Successful completion of previous level or departmental approval by audition is required for registration.

**Style:** This is a studio-based course. Students will be dancing in the studio.

**Grading:** 30% attendance. 40% Achievement and skill. 30% Attendance. 30% Progress, Effort, and Attitude.

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**Dnce 1220 Jazz Technique 4**  
1 credit(s), max credits 2;  
**Instructor:** Grotting, Karla Kaye  
**Description:** This is the fourth of a six-semester sequence of jazz dance technique/style. This class will continue to expand vocabulary and develop skills, technique, and style used in classical jazz dance while increasing flexibility and strength. Emphasis will be on the use of space, clear articulation of movement, rhythmic footwork, grounding movement, dynamics, and overall musicality (meter, tempo, syncopation, and phrasing). Dancers will deepen the exploration of improvisation in a “jazz way?” (to include jazz rhythms, chord changes, jazz structures, and sharing the pulse in different body parts, etc.). Dancers will continue to explore an understanding of the history of jazz music and dance styles, with an emphasis on significant jazz artists.

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**Dnce 1302 Tap Technique 2**  
1 credit(s);  
**Instructor:** Keane, Ellen  
**Description:** Student may contact the instructor or department for information.

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**Dnce 1313 African Based Movement**  
1 credit(s);  
**Instructor:** Brown, Patricia  
**Description:** Student may contact the instructor or department for information.

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**Dnce 1315 Flamenco**  
1 credit(s);  
**Instructor:** Hauser, Suzanne M  
**Description:** Student may contact the instructor or department for information.

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**Dnce 1331 Yoga**  
1 credit(s);  
**Instructor:** Ollmann, Becka M  
**Description:** Student may contact the instructor or department for information.

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**Dnce 1343 Hip Hop Movement**  
OPT No Aud, 1 credit(s);  
**Instructor:** Cottman, Kenna-Camara  
**Description:** This course will deepen the exploration of hip hop's various forms, with a distinct focus on old school/new jack swing. Students will learn longer sections of choreography, the pace of the class will move quickly, and the contemporary use of Hip Hop in performance will be discussed and practiced. History, culture, and technique will be discussed through discourse, lecture, demonstration, and practice. Each class will consist of a cardiovascular warm-up, strength and endurance activities, applications of technique, choreography, and cool down. Guest artists/master classes may be a part of the course, as well as film, reading, and guest lecture/demonstration.  
**Style:** 25% Discussion, 75% Laboratory.  
**Grading:** 30% attendance, 20% class participation, 50% laboratory evaluation.
Dnce 1345 Alexander Technique for Movement Artists
OPT No Aud, 1 credit(s);
Instructor: Thompson, Erin D
Description: This course introduces students to the Alexander Technique, a method by which we can enhance our freedom of movement in everyday life, from waking in the morning to falling asleep at night. It re-educates our ?use? of ourselves in everything from sitting, walking, reading, using a computer, performing a monologue or a dance phrase or playing the cello. Coursework includes readings, discussions, experiential explorations including movement awareness and games, body mapping, semi-supine practice, and journal reflections and essays relating to the principles and operational ideas of the Alexander Technique. Students will explore the principles of the Technique, observe their habits of use and identify habitual movement patterns, increase their kinesthetic awareness and knowledge of functional anatomy, and enhance their power of conscious choice in their daily life and performance activities.

Dnce 1354 African Diasporic Movement 4
OPT No Aud, 1 credit(s);
Instructor: Cottman, Kenna-Camara
Description: Student may contact the instructor or department for information.

Dnce 1401 Introduction to Dance
OPT No Aud, 3 credit(s); Credit will not be granted if credit has been received for: CHIC 1401; Meets CLE req of Arts/Humanities
Instructor: Brown, Maija Elizabeth
Description: This newly redesigned course is an introduction to global dance forms in society and art. It covers dance forms and significant issues in dance through lecture, discussion, viewing of live and taped performances and movement experiences. The course presents international perspectives on how dance functions in specific cultural contexts and how dance traditions influence each other as cultures come into close contact with one another. The course begins looking at a selection of dance forms from around the world and will end by exploring how these forms come into the United States contributing to creation of the fusion forms that make up American dance. A main objective is for students to develop the aesthetic, cultural and historical awareness needed to form and articulate, verbally and in writing, ideas and opinions about the art of dance. The course will examine a broad-range of dance traditions including: West African, Middle Eastern, South Indian, Japanese dance theater, European folk dance, ballet, Brazilian, North American Plains Indian, and American forms: tap, jazz, hip hop, modern dance and musical theater. By the end of the course students will be able to recognize a variety of dance traditions and connect their historical development to the specific social, artistic and political currents of their culture.

Dnce 1401 Introduction to Dance
OPT No Aud, 3 credit(s); Credit will not be granted if credit has been received for: CHIC 1401; Meets CLE req of Arts/Humanities
Instructor: Garcia, Cindy
Description: What is dance? Where do we engage with dance today? Can dance "do" things? How does dance create social meaning? How can we write about dance? In this course, we will ask these questions while considering dance as a framework for the analysis of moving bodies. We will develop ways of interpreting and articulating dance through reading, writing, moving, and watching dance. Throughout, we will focus on the movement politics of race, class, gender, sexuality, and nation and the transnational circulation of various dance genres. This is both a seminar and a movement course. Come prepared to read, write, move, and discuss dance. You do not need to have prior dance experience to succeed in this course.
Style: 20% Lecture, 5% Film/Video, 10% Discussion, 10% Small Group Activities, 6% Student Presentation, 5% Field Trips, 40% Studio, 4% Guest Speakers.
Grading: 20% mid exam, 20% reports/papers, 20% additional semester exams, 10% class participation, 30% other evaluation. Other: Dance-making is 15%; Group Performance is 15%
Exam Format: Short answer and Multiple Choice

Dnce 3020 Modern Dance Technique 6
2 credit(s), max credits 4;
Instructor: Smith, Joan Anne
Description: This is the sixth segment of an eight-section sequence of the Dance Program's modern/contemporary dance technique. Its focus is on preparing students at the advanced intermediate level. Class work is based on practical application of principles of space, time and energy focusing on alignment, weight, momentum, power from the pelvic center, joint rotation, muscle tone, skeletal articulation, clarity of focus and intent, flexibility, strength, stamina and energy flow and lines through the use of breath. The specific dance forms taught in the course vary based on background of the listed instructor. Successful completion of previous level or departmental approval by audition required for registration.
Dnce 3020 Modern Dance Technique 6
2 credit(s), max credits 4;
Instructor: Rink, Scott
Description: This is the sixth segment of an eight-section sequence of the Dance Program's modern/contemporary dance technique. Its focus is on preparing students at the advanced intermediate level. Class work is based on practical application of principles of space, time and energy focusing on alignment, weight, momentum, power from the pelvic center, joint rotation, muscle tone, skeletal articulation, clarity of focus and intent, flexibility, strength, stamina and energy flow and lines through the use of breath. The specific dance forms taught in the course vary based on background of the listed instructor. Successful completion of previous level or departmental approval by audition required for registration.

Dnce 3120 Ballet Technique 6
2 credit(s), max credits 4;
Instructor: Freeh, Penelope Anne
Description: Student may contact the instructor or department for information.

Dnce 3120 Ballet Technique 6
2 credit(s), max credits 4;
Instructor: Sayegh Rodriguez, Abdo
Description: This course is the fifth level of an eight-semester in classical ballet. This course offers the intermediate ballet student principles of ballet technique. Classwork will involve strong emphasis on proper alignment of the body with an understanding of power, energy and space with emphasis on dynamics timings, musicality and fluidity; and a command of ballet terminology. The class will begin at the barre, followed by a period of stretching/core strengthening. Center work will include port de bras, adagio, turns, petite allegro and grande allegro. As the semester progresses, the combinations will become more complex. A constant correlation between barre and center-work will be explored. On occasions, and depending on student needs, floor work will be included to address proper alignment/placement. In order to facilitate improvement, students are expected to learn combinations and to remember personal and general class corrections.

Dnce 3220 Jazz Technique 6
1 credit(s), max credits 2;
Instructor: Lee, Linda Talcott
Description: Student may contact the instructor or department for information.

Dnce 3302 Tap Technique 4
1 credit(s);
Instructor: Keane, Ellen
Description: Student may contact the instructor or department for information.

Dnce 3312 Contemporary Indian Dance 2
OPT No Aud, 1 credit(s);
Instructor: Chatterjea, Ananya
Description: Student may contact the instructor or department for information.

Dnce 3402W Dance History 2
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Chatterjea, Ananya
Description: This is a writing intensive class where we survey the major developments in history of concert dance in the West, through the genres of ballet, modern dance, and postmodern dance. Beginning with an exploration of performances of power in the royal court of France’s Louis XIV, and the development of the Romantic Ballet in France and the Ballet Russes in Russia, the course progresses through the ?modern dance? movement in the US, beginning with the legacies of Isadora Duncan and Ruth St. Denis and then looking at the development of the form through shifts brought in by choreographers such as Merce Cunningham; also touching briefly on the development of Ausdruckstanz in Germany. Finally, we return to the US to examine developments in post-modern dance, and end with a brief look at Butoh in Japan and Tanztheater in Germany. How do these genre descriptors allow us to track movements in aesthetics, politics, and cultural practices?
Style: 40% Lecture, 20% Film/Video, 20% Discussion, 10% Small Group Activities, 10% Student Presentation.
Grading: 70% reports/papers, 10% attendance, 10% in-class presentation, 10% class participation.
Exam Format: There is no examination for this class. The final project is a term paper submitted during exam week.

Dnce 3433 Articulate Body
3 credit(s);
Instructor: Fargnoli, Margaret
Dnce 3434 Nutrition and Body Maintenance for Movement Artists
OPT No Aud, 2 credit(s);
Instructor: Swami,Sandra Christina
Description: Student may contact the instructor or department for information.

Dnce 3601 Dance Composition 1
3 credit(s);
Instructor: Bergeron,Maggie Marie
Description: Student may contact the instructor or department for information.

Dnce 3601 Dance Composition 1
3 credit(s);
Instructor: Rink,Scott
Description: Student may contact the instructor or department for information.

Dnce 3622 Dance Production II
A-F only, 2 credit(s);
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 3700 Performance
1 credit(s), max credits 4, 4 completions allowed;
Instructor: Thompson,Erin D
Description: Student may contact the instructor or department for information.

Dnce 3901 Survival Strategies in Dance
A-F only, 3 credit(s);
Instructor: Jenson,Matthew Paul
Description: There is no textbook or template to follow for how to create a career in dance. Any textbook on the subject would be out of date within two years anyway. Surviving, even thriving, in the world of dance is not a linear path. There are no one size fits all strategies. So what can we do? We can learn from people who are doing now the things that we hope to do in the future. We can learn about the path that got them there, and we can learn about the tools and strategies that they used. We can co-construct new strategies and knowledge by seeking out information, sharing our findings with the class, and looking at the results from the multiple perspectives contained within our class.
Style: 15% Lecture, 20% Discussion, 10% Laboratory, 15% Small Group Activities, 10% Student Presentation, 5% Field Trips, 25% Guest Speakers.
Grading: 50% special projects, 30% attendance, 5% journal, 5% reflection paper, 10% in-class presentation.

Dnce 4601 Dance Composition 3
3 credit(s);
Instructor: Flink,Carl Lindsay
Description: Student may contact the instructor or department for information.

Dnce 4601 Dance Composition 3
3 credit(s);
Instructor: Smith,Joan Anne
Description: This is the fourth course in the University of Minnesota's dance program's six-course dance composition sequence required for completion of a BFA major in Dance. This course focuses on deepening each student's understanding of the compositional tools they have already gained in this sequence, developing new ones, and applying these tools to their personal artistic vision in choreographing for groups. It also challenges the students to see tools and craft as only one part of the choreographic process and consider the possibility that dance making is as much about breaking and reconstructing old forms, rules and assumptions and searching for new ones. The course also focuses on continuing to develop participants' abilities as active dance observers in order to further hone their dance direction, rehearsal methodologies and ability to communicate critical feedback to other artists.
Style: 15% Lecture, 5% Film/Video, 25% Discussion, 25% Laboratory, 25% Student Presentation. independently scheduled rehearsals.
Grading: 30% attendance, 10% class participation, 60% other evaluation. 60% of the grade is based on the process and final outcome/showing of two dance composition studies focused on the creation of group dances of 4 or more performers.
Dnce 5020 Modern Dance Technique 8
2 credit(s), max credits 4;
Instructor: Pierce, Toni L
Description: Student may contact the instructor or department for information.

Dnce 5500 Topics in Dance: Modern Dance Technique 10
2 credit(s), max credits 10, 10 completions allowed;
Instructor: Thompson, Erin D
Description: These are the ninth and tenth courses in the Dance Program's ten-section sequence of modern dance technique. It focuses on pre-professional modern dance technique training for students prepared for that level of achievement. Class work is based on practical application of principles of space, time and energy focusing on alignment, weight, momentum, power from the pelvic center, joint rotation, muscle tone, skeletal articulation, clarity of focus and intent, flexibility, strength, stamina and energy flow and lines through the use of breath. The specific dance forms taught in the course vary based on background of the listed instructor. Successful completion of previous level or departmental approval by audition required for registration.

Dnce 5500 Topics in Dance: Modern Dance Technique 10
2 credit(s), max credits 10, 10 completions allowed;
Instructor: Rink, Scott
Description: These are the ninth and tenth courses in the Dance Program's ten-section sequence of modern dance technique. It focuses on pre-professional modern dance technique training for students prepared for that level of achievement. Class work is based on practical application of principles of space, time and energy focusing on alignment, weight, momentum, power from the pelvic center, joint rotation, muscle tone, skeletal articulation, clarity of focus and intent, flexibility, strength, stamina and energy flow and lines through the use of breath. The specific dance forms taught in the course vary based on background of the listed instructor. Successful completion of previous level or departmental approval by audition required for registration.

Dnce 5601 Dance Composition 5
1 credit(s);
Instructor: Smith, Joan Anne
Description: DNCE 5601 is the final course in a six semester sequence in composition for the BFA Dance Major. Students will develop and realize choreographic projects through independently scheduled rehearsals and showings in class. Feedback will be given by the instructor and members of the class. DNCE 5601 will culminate in a public showing of the choreographic works created during the semester.
Style: 100% Studio. Independently scheduled rehearsals
Grading: 30% attendance, 70% in-class presentation. In-class Presentation includes participation in End Of Semester Showing.

Dnce 5993 Directed Studies
1-4 credit(s), max credits 10, 10 completions allowed;
Instructor: Chatterjea, Ananya
Description: This is an independent study project where the faculty instructor and student agree upon a particular research area, methodologies, and outcomes, based on the students' interests.
Style: This is organized in discussion between the instructor and student.
Grading: This is agreed upon in discussion and depending upon the course of study decided.

Dental Hygiene 9-406 Malcolm Moos Health Sciences Tower

DH 2212 Communication for Oral Health Providers
A-F only, 2 credit(s);
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);
Instructor: Gopalakrishnan, Rajaram
Description: Student may contact the instructor or department for information.

DH 2221 Periodontontology
A-F only, 3 credit(s);
Instructor: STAFF
Description: This course introduces periodontal diseases; etiology, assessment and treatment options. It includes clinical experience in debridement, root planing with ultrasonic and hand instruments.

DH 2222 Dental Hygiene Care Process Clinical Application II
A-F only, 3 credit(s);
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);
Instructor: Danielson,Judy Ann
Description: Student may contact the instructor or department for information.

DH 3126 Oral and Maxillofacial Radiology Clinic I
A-F only, 0 credit(s);
Instructor: Ahmad,Mansur
Description: Student may contact the instructor or department for information.

DH 3151 Oral and Maxillofacial Radiology
A-F only, 2 credit(s);
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);
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, 6 credit(s); Meets CLE req of Diversity and Soc Justice US; 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 4128 Oral and Maxillofacial Radiology Clinic III
A-F only, 0 credit(s);
Instructor: Blue,Christine M
Description: Student may contact the instructor or department for information.

DH 4130 Management and Supervision of a Dental Practice
A-F only, 2 credit(s);
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); 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
DH 4139 Dental Public Health and Academic Service Learning II
A-F only, 1 credit(s);
Instructor: Michalowicz,Bryan Stanley
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);
Instructor: Ahmann,Lisa Webb
Description: Student may contact the instructor or department for information.

DH 4300 Elective Academic Service Learning Experiences and Externships
S-N only, 0-13 credit(s), max credits 78, 6 completions allowed;
Instructor: Blue,Christine M
Description: Student may contact the instructor or department for information.

DH 5201 Management Internship
S-N only, 5 credit(s);
Instructor: Blue,Christine M
Description: Student may contact the instructor or department for information.

DH 5203 Capstone Project
S-N only, 5 credit(s);
Instructor: Blue,Christine M
Description: Student may contact the instructor or department for information.

DH 5401 Research Methods in Health Sciences
A-F only, 3 credit(s);
Instructor: Osborn,Joy B
Description: Student may contact the instructor or department for information.

DH 5403 The Discipline of Dental Hygiene
A-F only, 2 credit(s);
Instructor: Blue,Christine M
Description: Student may contact the instructor or department for information.

DH 5407 Instructional Strategies for Effective Teaching
A-F only, 2 credit(s);
Instructor: Stoltenberg,Jill L
Description: Student may contact the instructor or department for information.

DH 5409 Dental Hygiene Clinic Administration
A-F only, 2 credit(s);
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);
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;
Instructor: Newell, Kathleen Jane
Description: Student may contact the instructor or department for information.

DH 5421 Grant Writing for Health Professionals
A-F only, 1 credit(s);
Instructor: Flynn, Priscilla Moen
Description: Student may contact the instructor or department for information.

DH 7000 Thesis/Capstone Independent Study
No Grade, 0 credit(s);
Instructor: Blue, Christine M
Description: Student may contact the instructor or department for information.

**Dental Therapy**

DT 3212 Local Anesthesia and Pain Management
A-F only, 2 credit(s);
Instructor: Kademani, Deepak
Description: Student may contact the instructor or department for information.

DT 3230 Oral and Maxillofacial Radiology
A-F only, 2 credit(s);
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);
Instructor: Gopalakrishnan, Rajaram
Description: Student may contact the instructor or department for information.

DT 3331 Provider Patient Relationships
A-F only, 2 credit(s);
Instructor: Tinberg, RDH, BS, Jacqueline A
Description: Student may contact the instructor or department for information.

DT 3332 Cariology and Applied Nutrition in Dental Therapy Care
A-F only, 3 credit(s);
Instructor: Danielson, Judy Ann
Description: Student may contact the instructor or department for information.

DT 3410 Applied Dental Biomaterials
A-F only, 1 credit(s);
Instructor: Aparicio PhD, Conrado
Description: Student may contact the instructor or department for information.

DT 3641 Principles of Exodontia and Minor Oral Surgery
S-N only, 1 credit(s);
Instructor: Assael, Leon Allen
Description: Student may contact the instructor or department for information.

DT 4335 Dental Practice Management
A-F only, 2 credit(s);
Instructor: Stull, Cyndee
Description: Student may contact the instructor or department for information.

DT 4337 Dental Public Health and Service Learning II
A-F only, 2 credit(s);
DT 4338W Research Methods in Dental Therapy
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Osborn, Joy B
Description: Student may contact the instructor or department for information.

DT 4359 Introduction to Outreach Experiences
S-N only, 0 credit(s);
Instructor: Schulz DDS, Paul D
Description: Student may contact the instructor or department for information.

DT 4460 Essentials of Clinical Care I For the Dental Therapist
S-N only, 1-12 credit(s), max credits 12, 1 completion allowed;
Instructor: Self, Karl D
Description: Student may contact the instructor or department for information.

DT 5130 Preclinical Pediatric Dentistry
A-F only, 2 credit(s);
Instructor: Yesil, Jasmine
Description: Student may contact the instructor or department for information.

DT 5212 Local Anesthesia and Pain Management
A-F only, 2 credit(s);
Instructor: Kademani, Deepak
Description: Student may contact the instructor or department for information.

DT 5230 Oral and Maxillofacial Radiology
A-F only, 2 credit(s);
Instructor: Ahmad, Mansur
Description: Student may contact the instructor or department for information.

DT 5250 Oral Histology and Embryology
A-F only, 2 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.

DT 5331 Provider Patient Relationships
A-F only, 2 credit(s);
Instructor: Ahmann, Lisa Webb
Description: Student may contact the instructor or department for information.

DT 5332 Cariology and Applied Nutrition in Dental Therapy Care
A-F only, 3 credit(s);
Instructor: Danielson, Judy Ann
Description: Student may contact the instructor or department for information.
DT 5335 Dental Practice Management
A-F only, 2 credit(s);
Instructor: Stull, Cyndee
Description: Student may contact the instructor or department for information.

DT 5337 Dental Public Health and Service Learning II
A-F only, 2 credit(s);
Instructor: Flynn, Priscilla Moen
Description: Student may contact the instructor or department for information.

DT 5338W Research Methods in Dental Therapy
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Osborn, Joy B
Description: Student may contact the instructor or department for information.

DT 5359 Introduction to Outreach Experiences
S-N only, 0 credit(s);
Instructor: Schulz DDS, Paul D
Description: Student may contact the instructor or department for information.

DT 5410 Applied Dental Biomaterials
A-F only, 1 credit(s);
Instructor: Aparicio PhD, Conrado
Description: Student may contact the instructor or department for information.

DT 5460 Essentials of Clinical Care I For the Dental Therapist
S-N only, 1-12 credit(s), max credits 12, 1 completion allowed;
Instructor: Self, Karl D
Description: Student may contact the instructor or department for information.

DT 5471 Prosthodontic Topics for Dental Therapy
S-N only, 2 credit(s);
Instructor: Self, Karl D
Description: Student may contact the instructor or department for information.

DT 5641 Principles of Exodontia and Minor Oral Surgery
S-N only, 1 credit(s);
Instructor: Assael, Leon Allen
Description: Student may contact the instructor or department for information.

**Dentistry 15-209 Malcolm Moos Health Sciences Tower**

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);
Instructor: Bebeau, Muriel J
Description: Student may contact the instructor or department for information.

Dent 7052 Oral and Maxillofacial Radiologic Interpretation
A-F only, 2 credit(s);
Instructor: Ahmad,Mansur  
Description: Student may contact the instructor or department for information.

Dent 7062 Special Oral Pathology II  
S-N only, 1 credit(s), max credits 2, 1 completion allowed;  
Instructor: Koutlas, Ioannis George  
Description: Student may contact the instructor or department for information.

Dent 7071 General Practice Residency Dental Clinic  
S-N only, 13 credit(s), max credits 52, 4 completions allowed;  
Instructor: Chapman, Deborah L  
Description: Student may contact the instructor or department for information.

Dent 7101 Management Philosophy for Dental Practices  
S-N only, 1 credit(s);  
Instructor: Hinrichs DDS, MS, James Edward  
Description: Student may contact the instructor or department for information.

Dent 7111 Current Literature Review in Dentistry  
A-F only, 2 credit(s);  
Instructor: Conrad, Heather Joan  
Description: Student may contact the instructor or department for information.

Dent 7112 Treatment Planning Seminar  
A-F only, 2 credit(s), max credits 4;  
Instructor: Conrad, Heather Joan  
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;  
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 8100 Topics in Advanced Periodontology: Literature Review  
2 credit(s);  
Instructor: Johnson, Deborah Kay  
Description: Student may contact the instructor or department for information.

Dent 8120 Advanced Principles and Techniques of Orofacial Pain Disorders  
A-F only, 3 credit(s);  
Instructor: Schiffman DDS, MS, Eric L  
Description: Student may contact the instructor or department for information.

Dent 8121 Current Literature in TMD and Orofacial Pain  
A-F only, 1 credit(s);  
Instructor: John, Mike Torsten  
Description: Student may contact the instructor or department for information.

Dent 8123 Advanced Topics in Orofacial Pain
Design

Des 1000 D@MN: Design@Minnesota
A-F only, 3 credit(s); Meets CLE req of Arts/Humanities
Instructor: Fisher, Thomas Ray
Description: This course will address the diverse applications of design thinking and the design process, while helping students comprehend how the designed world has come to be and why some of that world works well and some of it doesn't. The course has, as its goal, raising the level of students' understanding of design as consumers, customers, and possibly the future clients of design and to broaden students' awareness of the diverse disciplinary perspectives and career paths possible within the College of Design.

Des 1101W Introduction to Design Thinking
A-F only, 4 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive
Instructor: Hemmis, Patricia
Description: Course Description: Students in DES 1101w will explore, through lecture and hands-on projects, the many ways that design thinking has become a powerful force in the 21st century. On the one hand, design methods and processes are seen as an important means of tackling complex social and cultural problems. On the other hand, designers stimulate desire and need through their manipulation of the form and function of places and objects. Designers are asked to re-think and re-shape processes as well as products. Design production has expanded to include the design of interactions, communications services, and collaborations. Design thinking is a crucial means of fostering creativity and innovation when employed as a problem-solving tool in such fields as business or medical practice. More than ever, designers are called upon to place human needs at the center of their design engagement. As a result, design thinking has become a powerful tool to address issues such as sustainability and social justice, at both a macro and micro level.
Audience: This course is intended for undergraduate students who are interested in learning how design thinking and design processes can be used as a catalyst for exploration, innovation and research. Rationale: This course exposes students to many facets of design thinking and provides them with an interdisciplinary perspective about design and human behavior. DES 1101w offers the opportunity to raise awareness about the value and the power of design thinking in our culture. Readings, Notes and Handouts: All course materials will be posted to the DES 1101w course website.
Style: 50% Lecture, 15% Film/Video, 25% Small Group Activities, 10% Guest Speakers. Students complete and present two hands-on group projects on design topics. Students work on projects in recitation periods, 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

Des 1111 Creative Problem Solving
A-F only, 3 credit(s);
Instructor: Hokanson, Brad
Description: How we generate new ideas is a critical skill in any field. It is a skill that can be employed on a small project or on a large project, but it must be developed and practiced. All of us can improve our capability for creative output and innovation. This course presents classic and new techniques through student activities, research, papers, projects, and exams. The use and mastery of creativity is the goal for this class and this semester. Assignments, lectures, discussions, and projects all will focus on this development of creative skills. This is the course that is the center of student activities at the University; it is the one course that deals most directly with creativity and creation. It is not directly about artistic creation; creativity is needed in all fields including business, engineering, medicine, and sociology. The nature of a student's university experience, particularly as a first year student, is a unique and different cognitive experience. Students must learn to think logically, utilize their critical thinking skills, explore ideas and to combine, integrate, and re-invent the way they think. No longer is a paper limited to a reiteration of the same information. Independent thought is now required of the successful student and professional; new ideas must be developed. Too often our educational system insists on the development of one single answer. At the University, we select our students on the basis of their ability to play by the rules of high school and standardized tests. Students, however, need the ability to go beyond linear, expected thinking and to be creative. Creativity is a skill that can be taught. It requires extensive work by the learners, but the lessons, while not conveying traditional content, will advance the learner in many ways. The principal activity of the course is the completion of a series of "differents". Starting from your own level of creativity, these exercises will challenge you to push your own limits. Video of class activities.

Style: 20% Lecture, 20% Discussion, 10% Laboratory, 15% Small Group Activities, 10% Demonstration, 10% Guest Speakers, 15% Web Based.
Des 1111H Honors: Creative Problem Solving
A-F only, 3 credit(s);
Instructor: Hokanson, Brad
Description: How we generate new ideas is a critical skill in any field. It is a skill that can be employed on a small project or on a large project, but it must be developed and practiced. All of us can improve our capability for creative output and innovation. This course presents classic and new techniques through student activities, research, papers, projects, and exams. The use and mastery of creativity is the goal for this class and this semester. Assignments, lectures, discussions, and projects all will focus on this development of creative skills. This is the course that is the center of student activities at the University; it is the one course that deals most directly with creativity and creation. It is not directly about artistic creation; creativity is needed in all fields including business, engineering, medicine, and sociology. The nature of a student's university experience, particularly as a first year student, is a unique and different cognitive experience. Students must learn to think logically, utilize their critical thinking skills, explore ideas and to combine, integrate, and re-invent the way they think. No longer is a paper limited to a reiteration of the same information. Independent thought is now required of the successful student and professional; new ideas must be developed. Too often our educational system insists on the development of one single answer. At the University, we select our students on the basis of their ability to play by the rules of high school and standardized tests. Students, however, need the ability to go beyond linear, expected thinking and to be creative. Creativity is a skill that can be taught. It requires extensive work by the learners, but the lessons, while not conveying traditional content, will advance the learner in many ways. The principal activity of the course is the completion of a series of "differents". Starting from your own level of creativity, these exercises will challenge you to push your own limits. Video of class activities. NOTE: Students from all areas of study are encouraged to enroll in the class.
Style: 20% Lecture, 20% Discussion, 15% Small Group Activities, 10% Demonstration, 10% Guest Speakers, 15% Web Based.
Grading: 10% final exam, 60% special projects, 20% quizzes, 10% attendance.

Des 1202 Discovering Majors and Careers
A-F only, 1 credit(s);
Instructor: Hruska, Elizabeth Suzanne
Description: Description: Are you anxious or stressed about picking a major or finding a career you'll enjoy? Would you like to actively investigate your major and career options in more detail and explore how they relate to you? Discovering Majors and Careers Course guides you in learning more about your unique strengths, values, interests, skills, and personality. Then we explore how your unique characteristics relate to the world of majors at the U, and how you can use your major to find a career you'll enjoy. We'll also help you to discover how internships, community service, work experience, travel and networking (both in-person and social media) can positively impact your future success. The goal of the class is to help you be proactive about the future and learn strategies that will help with a lifetime of decision making. Style: 30% Lecture, 5% Film/Video, 30% Discussion, 30% Small Group Activities, 5% Guest Speakers.
Grading: 10% final exam, 60% special projects, 20% quizzes, 10% attendance.

Des 1904 Freshman Seminar: Impressionism in Paris & Southern France
A-F only, 3 credit(s), max credits 6; Meets CLE req of Global Perspectives
Instructor: Fogg, Monica
Description: Student may contact the instructor or department for information.

Des 1909W Freshman Seminar: Design in Scotland
A-F only, 3 credit(s), max credits 6; Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Boyd Brent, James W
Description: Student may contact the instructor or department for information.

Des 2101 Design and Visual Presentation
A-F only, 3 credit(s);
Instructor: Fogg, Monica
Description: Design and Visual Presentation has two basic goals: 1 - increase design acuity (awareness of design principles in concept and action); 2 - develop design craft with basic skills in Adobe Creative Suite and Microsoft PowerPoint. Course materials, lectures, and project submissions will be online with one 1-hour assisted lab session (optional) per week. In addition, students will submit 3 hard copies during the semester. On the First Friday of the semester, there is one OPTIONAL meeting in classroom, for those who want to meet instructors and ask questions in person at the start of the semester. This course introduces basic design practices used in presentation. Students will design and create projects that develop design skills useful in today's society. They will engage in the evaluation, discussion and activity of visual problem solving. Participants will gain skill in conceptual thinking and problem-solving while learning common computer and manual applications. Students will practice use of images, type, color, form, sequencing and layout. Course is oriented toward the beginner. There will be written exam/s on the readings and lectures. Coursework consists of
Des 3131 User Experience in Design
A-F only, 4 credit(s);
Instructor: STAFF
Description: The experiential components (emotional quality, affect, and lingering impression) of a design form the core of what is commonly referred to as the "user experience." In order to design for an optimal user experience, designers must first understand the guiding principles and process of interaction design. In addition, they must be competent in prototyping, conducting evaluations, and presenting their findings. This class will address the UX design process and these tools in the contexts of designed objects, interfaces, and environments. Students will apply what they learn to existing designs, conceive and propose prototype redesigns, and evaluate the effectiveness of their prototypes in a variety of design case studies.
Style: 20% Lecture, 25% Discussion, 35% Small Group Activities, 20% Guest Speakers. Small group work includes presentation and critique of projects
Grading: 50% special projects, 20% in-class presentation, 10% class participation. 20% in-class activities

Des 3141 Technology, Design, and Society
A-F only, 3 credit(s); Meets CLE req of Technology and Society
Instructor: STAFF
Description: In this course students will explore and evaluate the impact of technology and design on humans and our societies and consider how design innovation shapes our cultures. From the well-matched design and technology of the iPad, to high performance fibers made to protect our local fire fighters, designers create the future using technology to advance the quality of our daily lives. This course considers how people use technology to shape the adoption and use of designed products and environments through their consumerism, ethical values, and policy development. The course will be held in a collaborative learning environment to enhance student exploration and learning and will include lecture, discussion, group activities, and guest speakers.

Des 3160 Topics in Design: Furniture Design Practice
A-F only, 4 credit(s);
Instructor: Oliphant, Thomas Arthur
Description: DES 3160: Topics: Furniture Design, Practice One of the hardest things about a creative act is learning how to start making something before you know what it is. The simplest objects are always more formally complicated than the mind can accurately imagine. This course teaches basic methods of three-dimensional design via the making of furniture using direct-construction ?a fast, loose & ad-hoc 'boys-club-fort-building' method of discovering and visualizing while making. The results will not conventionally pretty, but they will be real, functioning, cultural things. Direct-construction-design is an ideal means to learn Design Process in a tangibly satisfying way. It will provide a powerful context for other professional skills addressing any creative, design and planning practice. All exercises will be dependent on the student connecting to ideas beyond commonly recognized boundaries of the furniture. Think "chairsness", not chairs. I will teach basic MIG welding and wood joinery to provide fast, viable structures; "surfacing" methods in wood, foam and fabric composites; and an introduction to mould making and casting. You do not need to be good at making, but you must be game to try. Course Structure: Twice weekly studio course -individual projects according to issued project guidelines -formal instructor presentation and demonstration of concepts and skills -informal instructor dialogue: individual and group -individual presentation & group critique -course assessment via anonymous individual & group questionnaire Materials: Students must budget $150 for materials in lieu of a course text. Materials will be bundle purchased for conformity and best price. Sample Bibliography: "How to Design a Chair", the Design Museum. Conran Octopus. 2010 "The Chair", Galen Cranz. WW Norton. "The Seat of the Soul", Arthur Danto. Essay from "397 Chairs", Harry N. Abrams, Inc. 1988. "Metaphors", Ettore Sottsass, Barbara Radice, Milco Carboni. Skira. 2003 "Auto-progettazione", Enzo Mari. Corraini. 2001 "Human Factors in Design", Alvin R. Tilley & Henry Dreyfuss Associates. Wiley. 2001 the "McMaster-Carr Industrial Supply Catalog"

Des 3160 Topics in Design: Re-imagining Hamilton Museum Signage & Wayfinding
A-F only, 3 credit(s), max credits 24, 6 completions allowed;
Instructor: Moran, Bill
Description: The primary emphasis of this class will be an investigation into design and signage considerations for the Hamilton Wood Type and Printing Museum in Two Rivers, Wisconsin. In this class we?ll do the following: focus on Hamilton's visual palette to establish a style guide for the project including color palettes, type choices, photography and communicating the museum's mission; consider the messages required for room dividers that explore the history of printing since Gutenberg, Hamilton's role in the growth of the use of wood type and aesthetic evolution based on the use of pantograph; explore the surface considerations for a library archive within the museum; propose visual solutions for exterior signage based on Hamilton's location within the city of Two Rivers and their role as a regional arts center and keepers of the largest collection of wood type in the world; and share the above explorations with a companion architecture.
Des 3201 Career and Internship Preparation for Design
A-F only, 1 credit(s);
Instructor: Rechtzigel MS,Dana
Description: This class is ideal for undergraduate students in Design majors or minors who are confident they're in the right major and want to begin seeking jobs and internships related to their career goals. Career and Internship Preparation for Design will walk you through the internship or job search process step by step to help you feel more confident in your ability to secure positions in your industry area. Through in-class presentations and activities, you will identify your top skills/ strengths and learn how to market these qualities through cover letters, resumes, portfolios and job interviews. Additionally, you will learn the best resources and strategies for finding job openings in your field. Students will also have several opportunities to get advice and insight from industry professionals. Note: If you are still uncertain about your career plans or questioning your major, DES 1202, Discovering Majors and Careers, may be a more appropriate course.
Style: 30% Lecture, 20% Discussion, 30% Small Group Activities, 20% Guest Speakers. In class activities include both individual reflection activities and small group discussions.
Grading: 46% reports/papers, 46% special projects, 8% class participation.

Des 3201 Career and Internship Preparation for Design
A-F only, 1 credit(s);
Instructor: Perman, Heidi J
Description: This class is ideal for undergraduate students in Design majors or minors who are confident they are in the right major and want to begin seeking jobs and internships related to their career goals. Career and Internship Preparation for Design will walk you through the internship or job search process step by step to help you feel more confident in your ability to secure positions in your industry area. Through in-class presentations and activities, you will identify your top skills/ strengths and learn how to market these qualities through cover letters, resumes, portfolios and job interviews. Additionally, you will learn the best resources and strategies for finding job openings in your field. Students will also have several opportunities to get advice and insight from industry professionals. Note: If you are still uncertain about your career plans or questioning your major, DES 1202, Discovering Majors and Careers, may be a more appropriate course.
Style: 30% Lecture, 30% Discussion, 20% Small Group Activities, 20% Guest Speakers.
Grading: 55% reports/papers, 25% special projects, 5% attendance, 10% class participation, 5% other evaluation.

Des 3309 Storytelling and Design
A-F only, 3 credit(s);
Instructor: Peters, Stephen Michael
Description: The course addresses the principles of storytelling as they impact presentation skills. Story elements, selection, and delivery will be practiced in oral and non-verbal forms and understood as they apply to disciplines within and beyond academics. The majority of work in the course directly deals with two communication methods, speaking and writing. The course itself focuses on and builds out from the tradition of oral storytelling, aiming toward telling stories designed to enliven professional presentations and, in one assignment, fashioning micro-stories for job interviews. Students will develop and present six stories; each is evaluated and critiqued by the instructor and the storyteller's peers for structure, clarity, pacing, and interaction with the audience. In addition, each class session has a reading component and, in most cases, a written response to the reading or a recording of their stories in written form is assigned. Selected presentations by the students are video recorded and are reviewed with individual students in individual meetings. A rubric for evaluating their performance is used and is included with the syllabus.
Style: 5% Lecture, 25% Discussion, 15% Small Group Activities, 50% Student Presentation, 5% Demonstration.
Grading: 15% reports/papers, 15% reflection paper, 60% in-class presentation, 10% class participation.

Des 3311 Travels in Typography
A-F only, 3 credit(s);
Instructor: Moran, Bill
Description: The primary emphasis of this class will be a survey of the letterforms that brought us our modern alphabet. We'll focus on early writing cultures and follow the development of the written and printed word. We'll identify the primary writing systems used by Chinese, Egyptian, Sumerian, Greek and Roman cultures. We'll understand how the writing of Medieval manuscripts evolved into movable type. You'll learn to identify how movable type evolved after the introduction of the printing press. You'll have a chance to learn to set type and print using traditional printing presses. We'll divide our semester into 3 phases of study. Phase 1 begins with the ancient writing cultures: Sumer, Egypt and China, we'll explore how the process of writing began. Focusing on primary source artifacts we'll investigate writing's role in society by looking at actual examples of cuneiform, sarchophogi and Chinese calligraphy. Phase 2 will encompass the Levantine alphabets.
These are the writing systems of the Phoenician, Greek, Etruscan and Roman cultures. It is the emergence of true alphabets that make these cultures especially important to our current writing system. Also in phase 2, we'll discuss the manuscript tradition in Europe taking us through 1400 a.d. Phase 3 will focus on the emergence of movable type in Europe and the rapid dissemination of the printed word. With this information revolution, we'll examine how standards of learning, notions of beauty and the black plague all combined to make for a period unparalleled in social and intellectual upheaval. We'll conclude with the industrial revolution and its effect on printing and mass production.

**Style:** 30% Lecture, 10% Discussion, 20% Laboratory, 20% Demonstration, 20% Field Trips.

**Grading:** 75% special projects, 10% written homework, 5% reflection paper, 5% class participation, 5% problem solving.

### Des 3331 Street Life Urban Design Seminar

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

**Instructor:** Christensen, Carrie Ann

**Description:** The street is our civic common ground. To study the street is to assign a value to this most public of urban spaces. Through exploration, interrogation and reflection students will take steps in tending to the physical, social and cultural life of the street. Students will also have the chance to reflect on and engage with local streets through public history, public art, and public participation processes.

**Style:** 20% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Field Trips, 10% Guest Speakers, 10% Service Learning.

**Grading:** 20% reports/papers, 60% special projects, 5% attendance, 10% reflection paper, 5% class participation.

### 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 3351 Phenomenon of Everyday Design

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

**Instructor:** Hemmis, Patricia

**Description:** Why are so many people talking about design? During the past decade, the interest in and perceived value of design has reached the status of "phenomenon." From Target to Project Runway, from designing a virtual world for an avatar to designing for social change, interest in "design" writ large, permeates our world. In this course, we will examine the fascination with design in our everyday life. Together, we will explore the implications of this phenomenon in the present, and examine historical precedents for the "design in everyday life" concept. Together we all explore the following questions: How are new materials, and sensors embedded in our products shaping our relationship with design in our everyday lives? How are we shaping virtual and physical experiences through design? How are these experiences changing us? Is design moving from the hands of "experts" to those who prefer to "do-it-themselves." Why is design thinking influencing fields such as medicine and business? What forces are shaping design in our everyday lives at the beginning of the 21st century?

**Style:** 35% Lecture, 10% Film/Video, 30% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.

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

### Des 4160 Topics in Design

**A-F only, 1-4 credit(s), max credits 24, 6 completions allowed;**

**Instructor:** Strong, Richard B.

**Description:** Come explore sustainable neighborhoods with a group of Twin Cities urban experts. This class will be engaging with and learning from urban neighborhood designers, developers, planners, and policy experts in the field of creating sustainable neighborhoods. The subject will be examined from both experiential and theoretical perspectives. The Center for Sustainable Building Research in the College of Design has been at the cutting edge of sustainable building design and research for 15 years. We are now engaged in applying sustainable design principles at the neighborhood or community scale on several projects. While individual buildings can address specific environmental impacts, issues such as district energy systems, stormwater management, water quality, and restoration of the natural landscape can be more
holistically addressed at a larger scale. Strategies such as mixed-use development to create walkable communities and sustainable transportation options such as mass transit, bicycles, and car sharing are neighborhood scale issues as well. Looking at clusters of buildings, individual blocks or whole neighborhoods also presents opportunities for new concepts in sustainable infrastructure. Energy generation and storage, water supply, wastewater treatment, solid waste management and food production all can be designed at the neighborhood or district scale in ways that have less environmental impact and are potentially less costly. This "small scale infrastructure" approach does not rely on large central plants and large distribution systems. In fact, it holds the promise of replacing aging infrastructure in existing cities or providing new infrastructure in undeveloped areas in a modular cost effective way. When combined through whole systems design, all of these strategies can result in nearly self-sufficient neighborhood modules. The class will comprehensively analyze self-sufficient neighborhoods in urban environments through the lenses of public policy, land use law, marketing, design and development of new environments, and the interaction between these disciplines.

Des 4193 Directed Study in Design
A-F only, 1-6 credit(s), max credits 36, 6 completions allowed;
Instructor: Harder,Kathleen A.
Description: Student may contact the instructor or department for information.

Des 5185 Human Factors in Design
A-F only, 3 credit(s);
Instructor: Dunne,Lucy Elizabeth
Description: Human Factors in Design is an introductory course in which we explore the various facets of human factors through the lens of design. We begin with the physical body (anthropometrics, physical ergonomics, sensory experiences), and move through cognition (attention, decision-making, HCI) to emotion (social issues, user experience.) This course assumes no prior exposure to human factors engineering or design: we apply theories and methods of assessing and addressing human factors through a product analysis project and a user-centered product design project. Typically the class is made up of students drawing from a wide variety of disciplines and experiences. **NEW THIS YEAR** Through a sponsorship by Nokia, we will be focusing on mobile phones in the course product design project (*widely* interpreted). Each student will receive a Nokia N8 smart phone to work with for the duration of the semester.
Style: 50% Lecture, 10% Film/Video, 10% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Studio, 5% Guest Speakers.

Des 5201 Career and Job Search Preparation for Graduate Students
S-N only, 1 credit(s);
Instructor: Okstad,Brian Clay
Description: Student may contact the instructor or department for information.

Des 8103 Qualitative and Mixed Methods Research
A-F only, 3 credit(s);
Instructor: Bruin,Marilyn J
Description: Student may contact the instructor or department for information.

Des 8164 Innovation Theory and Analysis
A-F only, 3 credit(s);
Instructor: LaBat,Karen Louise
Description: Student may contact the instructor or department for information.

Des 8181 Research Ethics
S-N only, 1 credit(s);
Instructor: Bruin,Marilyn J
Description: Student may contact the instructor or department for information.

Development Studies and Social Change 537 Heller Hall

DSSC 8112 Scholarship and Public Responsibility
S-N only, 2 credit(s);
Instructor: Furco,Andrew
Description: Student may contact the instructor or department for information.

DSSC 8212 Doctoral Research Workshop in Development Studies and Social Change
S-N only, 1 credit(s);
Instructor: Brown, Karen
Description: Student may contact the instructor or department for information.

DSSC 8310 Topics in Development Studies and Social Change
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Porter, Paul M
Description: Student may contact the instructor or department for information.

DSSC 8310 Topics in Development Studies and Social Change
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Craddock, Susan L
Description: Student may contact the instructor or department for information.

Doctor of Dental Surgery 15-209 Malcolm Moos Health Sciences Tower

DDS 6113 Periodontology III Lecture
A-F only, 1.5 credit(s);
Instructor: Michalowicz, Bryan Stanley
Description: This course will provide information regarding the surgical phase of periodontal therapy, including select topics in implantology. The course also emphasizes the evaluation of periodontal treatment, periodontal maintenance care, and the relationship between periodontics and other disciplines in dentistry. Use of pharmacological agents, periodontal medicine, clinical research and integrating periodontics into the general practice also are covered.
Grading: 100% other evaluation. Grading is based on two exams given during the semester.

DDS 6122 Periodontology Clinic
A-F only, 4 credit(s);
Instructor: Skaar, Daniel Dean
Description: This course is designed to enable the dental student to gain expertise, knowledge, and confidence in the clinical skills needed to examine, diagnose, and treat the periodontal patient.
Grading: 100% other evaluation. The course grade is based on the average percentage scored on 7 periodontal competencies.

DDS 6131 Pediatric Dentistry Pre-Clinic
A-F only, 1.7 credit(s);
Instructor: Yesil, Jasmine
Description: DDS 6131 / DT 3130 & 5130 is designed as a survey of the clinical aspects of Pediatric Dentistry for dental and dental therapy students. The purpose of this course is to emphasize basic information regarding early childhood development and care for children that does not require advanced knowledge and competence in clinical dentistry.
Grading: Grading is based on exams, a clinical case report, discussion, and attendance.

DDS 6141 Pediatric Dentistry Clinic
A-F only, 3.6 credit(s);
Instructor: Yesil, Jasmine
Description: DDS 6141/DT 4141 is designed as a survey of the clinical encounters in Pediatric Dental Care. The purpose of this course is to re-emphasize basic information regarding early childhood development and care for children that does require foundation knowledge and competence in clinical dentistry. You should complete this course with a basic clinical understanding of: 
- Pediatric Dentistry as a career and specialty
- Growth and development
- Development of the primary dentition and the transitional dentition
- Dental anatomy and anomalies
- Dental caries process, prevention and treatment
- Introduction of children to their first dental visit
- Basic behavior management
- Pain and anxiety management for the child and adolescent
- Radiographic techniques commonly used for children and adolescents
- Sealants, resins, amalgams, and stainless steel crowns
- Pulp diagnosis and treatment
- Interceptive
- Orthodontics and space maintenance
- Dental trauma
- Minor Pediatric oral lesions
- Common emergencies for children and adolescents
- Pediatric and adolescent problem solving and treatment planning
Grading: 100% other evaluation. Grading is based on clinical competencies, attendance, supplemental learning activities, and examinations.

DDS 6151 Pain and Anxiety Control
A-F only, 1.2 credit(s);
Instructor: Kademani, Deepak  
Description: This course offers a multi-disciplinary introductory level course to the diagnosis and management of pain and anxiety control in dentistry.  
Grading: 50% mid exam, 50% final exam.

**DDS 6153 Oral and Maxillofacial Surgery II**  
A-F only, 1.2 credit(s);  
Instructor: Hughes, Pamela Jean  
Description: This course is an introduction to the fundamental concepts of oral and maxillofacial surgery. The fundamental clinical and diagnostic skills of oral and maxillofacial surgery that apply to the practice of general dentistry are emphasized in this course.  
Grading: 53% mid exam, 47% final exam.

**DDS 6161 Oral & Maxillofacial Surgery Clinic Rotation**  
S-N only, 2.5 credit(s);  
Instructor: Swift, James Q  
Description: The purpose of the School of Dentistry pre-doctoral clinic rotation in oral surgery is to provide the opportunity to learn the fundamental skills of oral surgery required for the practice of general dentistry. During this clinical rotation, the junior student will be assigned a variety of responsibilities and will gain experience in the following areas: general operation of the oral surgery clinic; aseptic technique and infection control procedures; assisting an operator during basic oral surgery procedures; surgical instrumentation; and tray set-ups and breakdown. The student will also have the responsibility of obtaining vital signs, such as blood pressure, and pulse, and providing postoperative care instructions to the surgical patient.  
3rd year students are initially assigned to the oral surgery clinic as an assistant. The time allocation for the Junior rotation averages approximately 10 session equivalents. During the Junior clinic rotation, the student functions as a surgical assistant. The student is introduced to the methods of clinic operation, aseptic technique and infection control, surgical instrumentation and familiarity with the operative techniques of exodontia and dentoalveolar surgery. More experienced students may be assigned to the clinic as "student surgeons."  
Grading: 100% other evaluation. Students are evaluated and graded on the basis of their clinical performance and theoretical knowledge.

**DDS 6172 Orthodontics II**  
A-F only, 1.5 credit(s);  
Instructor: De Felippe, Nanci Lara  
Description: COURSE PURPOSE:  
To enhance the student's judgment in the areas of diagnosis, treatment planning, and treatment objectives.  
To understand post-orthodontic treatment growth and relapse changes and the use of orthodontic retention appliances.  
To study the principles and procedures in preventive, interceptive, and corrective orthodontics examined through a case analysis and treatment planning format.  
Grading: 100% other evaluation. Grading includes scheduled quizzes and a final exam.

**DDS 6181 Orthodontic Clinic Rotation**  
S-N only, 0.2 credit(s);  
Instructor: De Felippe, Nanci Lara  
Description: The clinical course is a week-long rotation in Orthodontics designed to provide additional experience in the comprehensive evaluation and treatment of patients. This educational experience is intended to enhance the student's understanding of orthodontic treatment planning in combination with other disciplines in Dentistry.  
To enhance the student's judgment in the areas of diagnosis, treatment planning, and treatment objectives  
To expose students to the use of contemporary orthodontic appliances  
To enhance the student's understanding of the treatment of specific orthodontic problems.  
Grading: 100% other evaluation. Grading is based on a Pass/Fail Clinical Competency Examination.

**DDS 6211 Introduction to Oral Biology**  
S-N only, 0.6 credit(s);  
Instructor: Rudney, Joel David  
Description: This course will introduce you to the biology of the mouth. The topics we will cover include plaque microbiology, bone growth and remodeling (as it applies to orthodontic tooth movement and dental implants), oral diseases, bad breath, and the biology of amalgam fillings. Each lecture will provide a broad overview of current information. Speakers also will give examples of how the biological information relates to clinical dentistry.  
Grading: 100% other evaluation.

**DDS 6215 Dental Pharmacology**  
A-F only, 3 credit(s);
Instructor: Lichtblau PhD, Leonard
Description: <html> <p>The purpose of the course is to provide Dental students with basic concepts of drug action and to give them tools for lifelong learning. This survey course will address basic principles of drug action followed by sections on drugs that act on various bodily systems. Since this course is specifically designed for Dental students the course will be roughly divided into three sections: <ol> <li>Basic principles that affect all drug action as well drugs affecting the autonomic nervous system</li> <li>Drugs critical for the practice of dentistry including analgesics, anesthetics and antibiotics</li> <li>Drugs dentists should know about because, even though they are unlikely to prescribe them, their patients may be taking these drugs and these may affect treatment decisions. These include cardiovascular, gastrointestinal, renal, endocrine and psychiatric medications.</li> </ol> Additional topics will be covered in the course as well. The course will emphasize prototype drugs, wherever possible.</p> </html>

Grading: 100% other evaluation. Grading is based on 4 exams throughout the semester.

**DDS 6231 Physical Evaluation I**
A-F only, 2.9 credit(s);
Instructor: Hamamoto,Darryl T
Description: <html> <p>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: </p> <ul> <li>Assess the medical history and physical status of a dental patient</li> <li>Determine the condition of the patient's oral structures</li> <li>Formulate and document in the dental record a plan to manage the care of the patient's oral health from both a medical and dental perspective.</li> </ul> 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.</p> </html>

Grading: Grading format includes course work, exams, a clinical slide exam, and a final exam.

**DDS 6232 Physical Evaluation II**
A-F only, 2.2 credit(s);
Instructor: Rhodus,Nelson L
Description: <html> <p>This is a reading, lecture and problem-based case participation series designed to review physical evaluation of common medical-systemic problems encountered in dental practice and to introduce the dental student to the principles of recognition and management of dental patients with these medical problems. The foundation upon which the principles of medical management is based is thorough evaluation, and recognition of the medically compromised patient. The course is designed to meet the practical needs for encountering dental patients in the clinical setting. The series of class meetings in this course will be dedicated to these objectives.</p>

Grading: 20% mid exam, 30% final exam, 50% other evaluation.

**DDS 6233 Oral and Maxillofacial Radiology**
A-F only, 2 credit(s);
Instructor: Ahmad,Mansur
Description: <html> <p>The purpose of this course is to assist students in mastering fundamental concepts and principles that are essential for effective and safe production and utilization of X rays in accordance with good professional judgment and state and federal radiation regulations. This course also establishes a foundation for processing of the radiographs in a darkroom and processing a digital image. The course also assists the students to understand the biologic effects of radiation on cellular, tissue and organ levels.</p> </html>

Grading: 100% other evaluation. Grading is based on 3 exams given throughout the semester.

**DDS 6235 Oral Radiology Preclinical Lab I**
S-N only, 0.9 credit(s);
Instructor: Ahmad,Mansur
Description: Student may contact the instructor or department for information.

**DDS 6241 Oral Medicine/Diagnosis Clinic I**
S-N only, 0.7 credit(s);
Instructor: Rhodus,Nelson L
Description: <html> <p>Course Purpose - to introduce to the dental students to a systematic approach to the comprehensive physical evaluation of the dental patient. This includes techniques of interviewing, examination and basic diagnostic procedures. Integrating, cerebrating and analyzing the data base to arrive at comprehensive diagnoses</p> </html>
following the problem-oriented approach a problem list is generated, initial plans formulated and ultimately the complete patient data base is utilized in arriving at comprehensive final diagnoses and the treatment plan. </p> <p>The Oral Medicine- Oral Diagnosis Clinic is an initial clinic providing comprehensive patient evaluation including, medical history and interview, general physical examination and evaluation, head and neck exam, complete intraoral exam, occlusion-TMJ exam, periodontal exam, dental and radiological exam, etc. Medical consultations, as well as further dental clinical consultations are formulated following the problem-oriented approach after which a problem list is generated, initial plans formulated and ultimately the complete patient data base is utilized in arriving at comprehensive final diagnoses and the treatment plan. Instruction includes presenting/reviewing aspects of patient evaluation which will be used during the examination of patients in the various adult clinical programs in the School of Dentistry. </p> </html>

Grading: 100% other evaluation. The student will be evaluated on patient encounters and a competency exam.

DDS 6243 Oral Radiology Clinic
S-N only, 0.5 credit(s);
Instructor: Ahmad,Mansur
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.

Grading: 100% other evaluation. Grading will be based on weekly quizzes and three examinations.

DDS 6252 Oral and Maxillofacial Pathology
A-F only, 3.1 credit(s);
Instructor: Koutlas,Ioannis George
Description: The course deals with clinical features, diagnostic principles and therapeutic modalities associated with diseases encountered in the oral and perioral regions. You are expected to develop: A rational and systematic approach towards recognizing and describing signs and symptoms of oral diseases<br> Skills in constructing a reasonable differential diagnosis <br> Ability in establishing definitive diagnosis when possible <br> Familiarity with the management and treatment of various conditions <br> Ideas about future research in the pathobiology of oral disease <br> Further appreciation of the significance of your role as a doctor.<br> Grading: 100% other evaluation. Grading based on scheduled examinations and quizzes.

DDS 6311 Introduction to Clinical Dentistry
S-N only, 10 credit(s);
Instructor: Bakdash,Bashar
Description: Student may contact the instructor or department for information.

DDS 6312 Comprehensive Care Clinic I
S-N only, 4 credit(s);
Instructor: Mills,Eric Andrew
Description: The purpose of the Comprehensive Care Clinic course is to support the mission of the School of Dentistry as it applies to the clinical education of the students. Specifically, students receive instruction and direction in the application of knowledge, skills, and the principles of care to the comprehensive assessment, diagnosis, treatment planning, treatment, and management of patients. In addition, students are presented with the concepts and principles of Evidence Based Dentistry as applied to the clinical practice of dentistry.

Grading: 100% other evaluation. Grading is based on success with clinical encounters and competencies, a case presentation, and a Clinical Progress Report.

DDS 6313 Comprehensive Care Clinic II
The purpose of the Comprehensive Care Clinic course is to support the mission of the School of Dentistry as it applies to the clinical education of the students. Specifically, students receive instruction and direction in the application of knowledge, skills, and the principles of care to the comprehensive assessment, diagnosis, treatment planning, treatment, and management of patients. In addition, students are presented with the concepts and principles of Evidence Based Dentistry as applied to the clinical practice of dentistry.

Grading: 100% other evaluation. Grading is based on success with clinical encounters and competencies, a case presentation, and a Clinical Progress Report.

DDS 6332 Dental Public Health II
S-N only, 2.3 credit(s);
Instructor: Self, Karl D
Description: The purpose of this course is to develop foundation knowledge of the discipline of public health and the role dental public health plays within the dental profession. Dental Public Health II builds on the foundation laid out in Dental Public Health I (Introduction to Community Oral Health) and focuses on more systems wide factors that determine the quality and delivery of care to populations. The course will provide a wider understanding of the role of the dental profession in advocating for optimal health of communities, and the interplay between the dental profession and public/governmental efforts to promote oral health of communities as well as the interests of the dental profession.

Grading: 100% other evaluation. Evaluation is based upon 3 exams, projects, and quizzes.

DDS 6334 Professional Problem Solving
S-N only, 0.8 credit(s);
Instructor: Quick, Karin
Description: The purpose of this course is to provide students with a forum for the discussion of clinical dental cases in the context of ethics and professionalism. This course spans the third year of pre-doctoral dental education and consists of five workshops. Based on the ADA Principles of Ethics and Code of Professional Conduct, five principles define the workshops in the third year.

Grading: 100% other evaluation. Grading is based on attendance, participation in discussions, and successful and timely completion of all individual and group assignments.

DDS 6335 Professional Problem Solving
S-N only, 0.3 credit(s);
Instructor: Quick, Karin
Description: The purpose of this course is to provide students with a forum for the discussion of clinical dental cases in the context of ethics and professionalism. This course spans the fourth year of pre-doctoral dental education and consists of a Clinical Dental Ethics OSCE (including feedback, debriefing, and self/peer assessment and reflection) and active participation in Ethics and Professional Practice Salons which include reflection/self and group assessments. Both the OSCE and the salons serve to round out the students' experience with dental cases and ethics.

Grading: 100% other evaluation. Grading is based on accountability and responsible communication, participation in discussions, and successful and timely completion of all assignments.

DDS 6336 Dental Practice Management
S-N only, 2 credit(s);
Instructor: Stull, Cyndee
Description: The purpose of this two-credit interdisciplinary course is to introduce DDS3, DH4, and DT2 students to the multitude of organizational, managerial, and financial systems that impact on the successful dental practice. This is a true dental interdisciplinary course bringing the future dental team together as one operating unit. The course content is intended to be applicable to students upon graduation. Beginning with a computer based simulation of dental practice designed to help students understand the basics of practice management concepts, this course will demonstrate the necessary building blocks needed to provide organization, predictability, profitability, and compliance with legal mandates. Presented by expert speakers, topics include, basic dental practice financial terminology and methods, efficient recordkeeping, patient dental benefits, resume/CV writing and interviewing, staffing, scope of practice and utilization, team dynamics, being in compliance with state laws and rules, as well as statutes from the Minnesota Board of Dentistry, the use of collaborative employment agreements, and patient management. This course is intended to give the students a core understanding of dental practice concepts and to provide a "tool kit" to aid them in their future practice careers and choices.

Grading: 30% final exam, 48% quizzes, 22% other evaluation.

DDS 6339 Emergency Preparedness
S-N only, 0.8 credit(s), max credits 1.6;
Instructor: Meyer, Carol Mary
The purpose of the course is to improve disaster preparedness of oral health professionals and thereby improve the timeliness and quality of disaster response. Students will improve their emergency preparedness response knowledge and skills by completing the course. Students will learn about emergency preparedness for the dental office. The Pandemic and All-Hazards Preparedness Reauthorization Act of 2013 (H.R. 307) was passed by the U.S. Congress and signed into law by the President on 3-13-2013. This Act clarifies that dentists may be considered disaster response public health workers and that states, at their option, can incorporate dentists and dental facilities into their emergency response planning.

Grading: 100% other evaluation. This is a Pass/Fail course. Lecture attendance and completion of an emergency preparedness plan for the dental office are requirements for passing this course.

DDS 6360 Introduction to Outreach Experiences
- S-N only, 0 credit(s);
- Instructor: Schulz DDS, Paul D
- Description: Student may contact the instructor or department for information.

DDS 6363 Outreach Experiences III
- S-N only, 2 credit(s);
- Instructor: Schulz DDS, Paul D
- Description: Student may contact the instructor or department for information.

DDS 6411 Applied Dental Biomaterials
- A-F only, 2 credit(s);
- Instructor: Aparicio PhD, Conrado
- Description: Almost every course of dental treatment involves the use of biomaterials. Use of the wrong material, or wrong usage of the correct material, can contribute significantly to failure of treatment. Thus the general course purpose is stated as: "the application of scientific principles to the selection and utilization of dental biomaterials."
- Grading: 100% other evaluation. Graded based on 5 tests and 1 written exercise.

DDS 6438 Operative Dentistry III
- A-F only, 3.8 credit(s);
- Instructor: Lee, Ignatius Kaiyan
- Description: The overall purpose of the course is to facilitate the transition of students from the pre-clinic laboratory to the clinic setting. Students are expected to demonstrate competency in the surgical treatment of dental caries prior to being certified ready for patient treatment. Treatment planning in Operative Dentistry will be discussed, which includes the diagnosis of dental caries and other dental abnormalities; and the understanding of different treatment options relating to the diagnosis.
- Grading: 100% other evaluation. Grading is based on competency examinations, a written examination, and in-class participation.

DDS 6441 Operative Dentistry Clinic II
- A-F only, 4 credit(s);
- Instructor: Hildebrandt, Gary Howard
- Description: This is the course that teaches what is arguably the heart of dentistry. This is the clinical course where dental students learn to place restorations. The teaching of Clinical Operative Dentistry at the University of Minnesota is divided into two courses. Each course covers three terms (Summer, Fall, Spring) in the Junior and Senior years of Dental School. Operative Dentistry is taught as one component of several in the Comprehensive Care Clinic. However, Operative Dentistry has its own set of teaching faculty, learning outcomes, and assessment mechanisms. The main focus of the course involves student clinicians placing single tooth restorations on patients with the direction and oversight of a clinic instructor. Student clinicians within the course also perform dental examinations and prepare treatment plans for patients with consultation from Operative Dentistry Division faculty.

DDS 6442 Operative Dentistry Clinic V
- A-F only, 7.5 credit(s);
- Instructor: Hildebrandt, Gary Howard
- Description: This is the course that teaches what is arguably the heart of dentistry. This is the clinical course where dental students learn to place restorations. The teaching of Clinical Operative Dentistry at the University of Minnesota is divided into two courses. Each course covers three terms (Summer, Fall, Spring) in the Junior and Senior years of Dental School. Operative Dentistry is taught as one component of several in the Comprehensive Care Clinic. However, Operative Dentistry has its own set of teaching faculty, learning outcomes, and assessment mechanisms. The main focus of the course involves student clinicians placing single tooth restorations on patients with the direction and oversight of a clinic instructor. Student clinicians within the course also perform dental examinations and
prepare treatment plans for patients with consultation from Operative Dentistry Division faculty.

**DDS 6461 Endodontic Clinic D3**
- **S-N only, 2 credit(s);**
- **Instructor:** Harris, Samantha P
- **Description:** The clinical endodontic procedures taught complement the instrumentation and obturation techniques (basically a crown-down rotary instrumentation technique with cold lateral compaction of gutta-percha) that the D-3/D-4 students were taught in the endodontic pre-clinical course. Also, other clinical procedures such as endodontic emergencies; endodontic recall procedures; non-vital bleaching; endodontic treatment planning/case selection; local anesthetic techniques; proper use of antibiotics/analgesics; rubber dam isolation techniques; endodontic access; root canal anatomy and the proper write up of endodontic progress notes are also taught. These additional endodontic clinical procedures complement endodontic didactic lectures given in the endodontic pre-clinical course.
- **Grading:** 100% other evaluation. Grading is based on endodontic case treatment and a competency examination.

**DDS 6462 Endodontic Clinic**
- **A-F only, 2 credit(s);**
- **Instructor:** Harris, Samantha P
- **Description:** The clinical endodontic procedures taught complement the instrumentation and obturation techniques (basically a crown-down rotary instrumentation technique with cold lateral compaction of gutta-percha) that the D-3/D-4 students were taught in the endodontic pre-clinical course. Also, other clinical procedures such as endodontic emergencies; endodontic recall procedures; non-vital bleaching; endodontic treatment planning/case selection; local anesthetic techniques; proper use of antibiotics/analgesics; rubber dam isolation techniques; endodontic access; root canal anatomy and the proper write up of endodontic progress notes are also taught. These additional endodontic clinical procedures complement endodontic didactic lectures given in the endodontic pre-clinical course.
- **Grading:** 100% other evaluation. Grading is based on endodontic case treatment and a competency examination.

**DDS 6471 Preclinical Prosthodontics Lecture II**
- **A-F only, 1.5 credit(s);**
- **Instructor:** Adarve, Ranier Marfil
- **Description:** DDS 6471 and DDS 6472 are didactic and laboratory pre clinical courses offered to DDS1 in spring term while DDS 6473 and DDS 6474 are offered in the summer term. They are part of the series of courses offered by the Division of Prosthodontics. These courses are designed to provide dental students the knowledge and skills of the science of Fixed Prosthodontics. Specifically, the purpose of DDS 6471 and DDS 6472 is to provide students with fundamental knowledge and procedural skills necessary of managing simulated patient cases that require Full Crown Restoration. On the other hand, DDS 6473 and DDS 6474 are to provide students the ability to manage patient that require Fixed Partial Denture. The terminal goal is for the students to be able to transfer the knowledge and skills they learn in these preclinical courses to managing real patients in their succeeding clinical courses that require fixed prosthodontic treatment.
- **Grading:** 30% final exam, 20% quizzes, 50% additional semester exams.

**DDS 6472 Preclinical Prosthodontic Technique Laboratory II**
- **A-F only, 3.3 credit(s);**
- **Instructor:** Adarve, Ranier Marfil
- **Description:** DDS 6471 and DDS 6472 are didactic and laboratory pre clinical courses offered to DDS1 in spring term while DDS 6473 and DDS 6474 are offered in the summer term. They are part of the series of courses offered by the Division of Prosthodontics. These courses are designed to provide dental students the knowledge and skills of the science of Fixed Prosthodontics. Specifically, the purpose of DDS 6471 and DDS 6472 is to provide students with fundamental knowledge and procedural skills necessary of managing simulated patient cases that require Full Crown Restoration. On the other hand, DDS 6473 and DDS 6474 are to provide students the ability to manage patient that require Fixed Partial Denture. The terminal goal is for the students to be able to transfer the knowledge and skills they learn in these preclinical courses to managing real patients in their succeeding clinical courses that require fixed prosthodontic treatment.
- **Grading:** 40% special projects, 60% additional semester exams. Grading includes Practical Tests and daily projects.

**DDS 6477 Preclinical Prosthodontics Technique Lecture V, Removable Partial Dentures**
- **A-F only, 2.5 credit(s);**
- **Instructor:** Grady, Robert D
- **Description:** The lecture course reviews the basic principles and philosophies of removable partial denture prosthodontics. Presentations will be given on the basic biological and mechanical principles that govern the design and fabrication of a removable prosthesis to replace teeth for the partially edentulous patient.
- **Style:** A clicker system will be used for Quizzes and Problem sets.
- **Grading:** 30% mid exam, 45% final exam, 15% quizzes, 10% attendance.
DDS 6478 Preclinical Prosthodontics Technique Laboratory V, Partial Dentures
A-F only, 2.2 credit(s);
Instructor: Grady, Robert D
Description: <html> <p>The DDS 6478 laboratory course correlates with the DDS 6477 lecture topics and consists of multiple projects designed to illustrate proper fabrication and evaluation of removable partial dentures. Faculty in the Simulation Clinic will guide the various steps associated with projects.</p> </html>
Grading: 15% mid exam, 25% final exam, 10% quizzes, 50% other evaluation. Grading includes daily laboratory exercises.

DDS 6479 Clinical Occlusion
A-F only, 1.3 credit(s), max credits 2.6;
Instructor: Delima, Luis F
Description: <html> <p>The preceding pre-clinical curriculum including: DDS6431 Oral Anatomy, DDS6471 and DDS6472 Preclinical Prosthodontics, and DDS6434 and DDS6436 Preclinical Operative Dentistry provided a foundation using simulated clinical exercises on typodont/manikins with "ideal occlusion."? <p> ?Clinical Occlusion? provides background and skills necessary to the transition from the pre-clinical setting to the clinical portion of the dental curriculum. This didactic/laboratory course is designed to provide students with the knowledge base necessary to appreciate the clinical variation in occlusion they will encounter in a typical clinical setting and guidelines to manage this variation in clinical practice. Strategies concerning occlusion both as integral to restorative treatment planning and as related to occlusal disorders are included. An inter-disciplinary framework for occlusion will also be developed.</p> </html>
Grading: 80% final exam, 20% laboratory evaluation. Grading based on a Final Exam and laboratory sessions.

DDS 6481 Fixed Prosthodontics Clinic II
A-F only, 5 credit(s);
Instructor: Cook, Gary Eugene
Description: Student may contact the instructor or department for information.

DDS 6482 Removable Prosthodontics Clinic II
A-F only, 5 credit(s);
Instructor: Cook, Gary Eugene
Description: Student may contact the instructor or department for information.

DDS 6483 Fixed Prosthodontics Clinic IV
A-F only, 7.5 credit(s);
Instructor: Grady, Robert D
Description: <html> <p>The purpose of the course is to provide the fourth-year dental student with fixed Prosthodontic treatment experiences that are performed under the supervision of clinical faculty who will provide instruction, assistance, and immediate feedback.</p> </html>
Grading: 100% other evaluation. Evaluation is based on clinical performance.

DDS 6484 Removable Prosthodontics Clinic IV
A-F only, 4 credit(s);
Instructor: Cook, Gary Eugene
Description: <html> <p>The purpose of the course is to provide the fourth-year dental student with removable Prosthodontic treatment experiences that are performed under the supervision of clinical faculty who will provide instruction, assistance, and immediate feedback.</p> </html>
Grading: Utilization of the "Student Appointment Preparation MOODLE Site" prior to the student's clinical appointment. The course will provide the means to integrate Prosthodontic principles with evidenced-based procedures and materials. The best practices - or standards of care - will be presented, demonstrated, and emphasized using several formats including: Utilization of the "Student Appointment Preparation MOODLE Site" prior to the student's clinical appointment. Referencing the educational materials provided on the Prosthodontic Continuing Education MOODLE Site. The course will provide the means for the student to self-evaluate his/her clinical performances. The student will be able to compare his/her evaluations to those of the supervising instructors. The analysis process is intended to help the student realize his/her stage of competency development. Evaluation is based on clinical performance.
Working with the Prosthodontic clinical faculty during the course of treatment.

- Referencing the educational materials provided at the treatment site such as clinic manuals and literature compilations.
- Referencing the educational materials provided on the Prosthodontic Continuing Education MOODLE Site.

The course will provide the means for the student to self-evaluate his/her clinical performances. The student will be able to compare his/her evaluations to those of the supervising instructors. The analysis process is intended to help the student realize his/her stage of competency development.

Grading: 100% other evaluation. Grading is based on clinical performance.

 DDS 6485 Preclinical Prosthodontics Technique Lecture V, Removable Partial Dentures for PASS
S-N only, 2.5 credit(s);
Instructor: Grady, Robert D
Description: The lecture course reviews the basic principles and philosophies of removable partial denture prosthodontics. Presentations will be given on the basic biological and mechanical principles that govern the design and fabrication of a removable prosthesis to replace teeth for the partially edentulous patient.
Grading: 30% mid exam, 45% final exam, 15% quizzes, 10% attendance.

 DDS 6486 Preclinical Prosthodontics Technique Laboratory V, Partial Dentures for PASS
S-N only, 2.2 credit(s);
Instructor: Grady, Robert D
Description: The DDS 6486 laboratory course correlates with the DDS 6485 lecture topics and consists of multiple projects designed to illustrate proper fabrication and evaluation of removable partial dentures. Faculty in the Simulation Clinic will guide the various steps associated with projects.
Grading: 15% mid exam, 25% final exam, 10% quizzes, 50% laboratory evaluation.

 DDS 6493 Prosthodontics I
A-F only, 1.1 credit(s), max credits 2.2;
Instructor: Larson DDS, MS, William Richard
Description: The purpose of this course is to provide prosthodontic clinical knowledge to the students which will serve as a link between the preclinical and clinical areas, as well as practical knowledge for use in postgraduate pursuits i.e. specialty education or private practice.
Grading: 60% final exam, 40% quizzes.

 DDS 6494 Global and Integrated Competency Assessment Course
S-N only, 1 credit(s);
Instructor: Adarve, Ranier Marfil
Description: Student may contact the instructor or department for information.

 DDS 6588 Common Hope: Short-term Clinical Experience in Guatemala Elective
S-N only, 0 credit(s);
Instructor: Quick, Karin
Description: Student may contact the instructor or department for information.

 DDS 6601 Community Volunteer Experience Elective
No Grade, 0 credit(s);
Instructor: Quick, Karin
Description: Student may contact the instructor or department for information.

 DDS 6602 Elective Regional Volunteer Experience
S-N only, 0 credit(s), 4 completions allowed;
Instructor: Quick, Karin
Description: Student may contact the instructor or department for information.

 DDS 6603 Elective Regional Volunteer Experience
S-N only, 0 credit(s);
Instructor: Quick, Karin
Description: Student may contact the instructor or department for information.

 DDS 6604 Elective Regional Volunteer Experience
S-N only, 0 credit(s);
Instructor: Quick, Karin
Description: Student may contact the instructor or department for information.
DDS 6605 Advanced Practice Management Elective  
S-N only, 0-2 credit(s), max credits 2, 1 completion allowed;  
Instructor: Murphy, Michael David  
Description: Student may contact the instructor or department for information.

DDS 6608 Elective Externship I  
S-N only, 1-5 credit(s), max credits 5, 1 completion allowed; Credit will not be granted if credit has been received for: DDS 6609;  
Instructor: Quick, Karin  
Description: Student may contact the instructor or department for information.

DDS 6609 Elective Externship II  
S-N only, 1-5 credit(s), max credits 5, 1 completion allowed; Credit will not be granted if credit has been received for: DDS 6608;  
Instructor: Quick, Karin  
Description: Student may contact the instructor or department for information.

DDS 6610 Elective Externship III  
S-N only, 1-5 credit(s), max credits 5, 1 completion allowed; Credit will not be granted if credit has been received for: DDS 6608;  
Instructor: Quick, Karin  
Description: Student may contact the instructor or department for information.

DDS 6611 Elective Externship IV  
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;  
Instructor: Quick, Karin  
Description: Student may contact the instructor or department for information.

DDS 6612 Volunteer Outreach Opportunity  
S-N only, 0 credit(s), 3 completions allowed;  
Instructor: Schulz DDS, Paul D  
Description: Student may contact the instructor or department for information.

DDS 6615 Oral and Maxillofacial Pathology Independent Study  
S-N only, 1 credit(s), max credits 2;  
Instructor: Rohrer, Michael D  
Description: Oral & Maxillofacial Pathology Independent Study (Honors Oral Pathology). Students participate in independent projects in oral and maxillofacial pathology designed by the faculty and student. This elective covers primarily retrospective surgical pathology studies although active laboratory research may be possible. (1.0 cr, S/N) Dr. Michael Rohrer: rohre008@umn.edu.

DDS 6616 Advanced Simulation Clinic Elective I  
S-N only, 0.5 credit(s);  
Instructor: Berthold, Peter  
Description: Advanced Simulation Clinic Elective I - Exposes students to operative dental procedures and the advanced simulation clinic. Further develops psycho-motor skills so basic operative preparations can be performed according to specifications of DentSim software at an acceptable level. (0.5 cr, S/N) Dr. Peter Berthold: berthold@umn.edu

DDS 6617 Advanced Simulation Clinic Elective II  
S-N only, 0.5 credit(s);  
Instructor: Berthold, Peter  
Description: Advanced Simulation Clinic Elective II - Provides additional exposure to development of psychomotor skills with emphasis on further operative procedures and crown preparations using DentSim software. (0.5 cr, S/N) Dr. Peter Berthold: berthold@umn.edu

DDS 6621 Introduction to CAD/CAM Restorations  
S-N only, 2 credit(s);  
Instructor: Zidan, Omar  
Description: Introduction to CAD/CAM CEREC Restorations. Course emphasizes clinical aspect and delivery of
**CAD/CAM restorations to patients.** (2.0 cr; S/N) Dr. Omar Zidan: zidano@umn.edu.

**DDS 6622 EBD: Advanced Dental Materials for Esthetic & Digital Applications**
- **S-N only, 1 credit(s);**
- **Instructor:** Zidan, Omar
- **Description:** Student may contact the instructor or department for information.

**DDS 6625 Pediatric Dentistry Honors Elective**
- **A-F only, 0.5 credit(s);**
- **Instructor:** Yesil, Jasmine
- **Description:** Student may contact the instructor or department for information.

**DDS 6631 DDS/PhD Research Elective I**
- **S-N only, 2 credit(s), max credits 6, 3 completions allowed;**
- **Instructor:** Herzberg, Mark C
- **Description:** Student may contact the instructor or department for information.

**DDS 6632 DDS/PhD Research Elective II**
- **S-N only, 2 credit(s), max credits 6, 3 completions allowed;**
- **Instructor:** Herzberg, Mark C
- **Description:** Student may contact the instructor or department for information.

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**Dutch**

**320 Folwell Hall**

**Dtch 1002 Beginning Dutch**
- 5 credit(s); 1001 Credit will not be granted if credit has been received for: DTCH 4002;
- **Instructor:** Oosterhoff, Jenneke A
- **Description:** Welkom terug in Nederlands 1002. This is the second course in the first-year language instruction sequence (1001-2), designed to develop a basic communicative proficiency in Dutch. Note: This is second semester beginning Dutch, so it is not a total beginner's course. Students will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. The main book is the text book package of Code volume 1. The book is accompanied by a cd-rom which is meant for independent work by the students at home. Class time will be devoted to mostly speaking and listening skills. Supplementary materials about life and culture in Holland (short authentic and literary texts, songs, video, and pictures) will be an integral part of the course. The first-year courses encourage extensive student interaction, partner activities, and group work. A selection of new topics to be introduced includes: health, comparing school systems, the arts, finding a job, friends and family etc. Students should expect an average of 2 hours of outside preparation for each class session. See the description for Dtch 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); 1001 Credit will not be granted if credit has been received for: DTCH 4002;
- **Instructor:** Van Leemput, Emilie Geogette Nelly
- **Description:** Welkom terug in Nederlands 1002. This is the second course in the first-year language instruction sequence (1001-2), designed to develop a basic communicative proficiency in Dutch. Note: This is second semester beginning Dutch, so it is not a total beginner's course. Students will practice the four language skills (speaking, writing, reading, and listening) and learn to handle simple, everyday transactions. The main book is the text book package of Code volume 1. The book is accompanied by a cd-rom which is meant for independent work by the students at home. Class time will be devoted to mostly speaking and listening skills. Supplementary materials about life and culture in Holland (short authentic and literary texts, songs, video, and pictures) will be an integral part of the course. The first-year courses encourage extensive student interaction, partner activities, and group work. A selection of new topics to be introduced includes: health, comparing school systems, the arts, finding a job, friends and family etc. Students should expect an average of 2 hours of outside preparation for each class session. See the description for Dtch 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
Description: This course continues the presentation of language skills (speaking, writing, listening and reading) begun in Dtch 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 film, etc. You should expect an average of three hours of outside preparation per class session. See the description for Dtch 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
2 credit(s); 1004 in another language or passing score on LPE or grad student
Credit will not be granted if credit has been received for: DTCH 1004;
Instructor: Oosterhoff, Jenneke A
Description: This course continues the presentation of language skills (speaking, writing, listening and reading) begun in
Dtch 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 film, etc. You should expect an average of three hours of
outside preparation per class session. See the description for Dtch 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;
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.

Early Modern Studies 1030 Heller Hall

EMS 8100 Workshop in Early Modern Studies
S-N only, 1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Shank, JB
Description: Student may contact the instructor or department for information.

EMS 8500 Topics in Early Modern Studies
3 credit(s), max credits 6;
Instructor: Ragnow, Marguerite
Description: The James Ford Bell Seminar in Comparative World History, ca. 1000 to 1800, provides students with an
introduction to archival and rare materials research within the context of European travel and the expansion of commercial
interests into the wider world in the medieval and early modern periods. The emphasis will be on preparing you for the
research paper that is the major outcome of this class, while also providing experience with many of the aspects of an
academic career, including writing book reviews and encyclopedia articles, intellectual discourse, art/artifact analysis,
understanding early maps, and paleography and manuscript transcription with a module on the history of the book. In
addition to submitting a final research paper, students will present their research in a public forum, a setting similar to
presenting at an academic conference or symposium.
Style: 20% Lecture, 60% Discussion, 20% Student Presentation. A field trip may be scheduled.
Grading: 50% reports/papers, 15% Discussion, 20% Student Presentation. A field trip may be scheduled.

EMS 8500 Topics in Early Modern Studies
3 credit(s), max credits 6;
Instructor: Reyerson, Kathryn L
Description: Student may contact the instructor or department for information.

EMS 8500 Topics in Early Modern Studies
3 credit(s), max credits 6;
Instructor: Cherbuliez, Juliette
Description: Student may contact the instructor or department for information.

EMS 8500 Topics in Early Modern Studies
3 credit(s), max credits 6;
Instructor: Matar, Nabil I
Description: Student may contact the instructor or department for information.
EMS 8500 Topics in Early Modern Studies
3 credit(s), max credits 6;
Instructor: Boantza, Victor Dan
Description: Student may contact the instructor or department for information.

EMS 8500 Topics in Early Modern Studies
3 credit(s), max credits 6;
Instructor: Gerbner, Katharine
Description: Student may contact the instructor or department for information.

Earth Sciences 106 Pillsbury Hall

ESci 1001 Earth and Its Environments
4 credit(s); Credit will not be granted if credit has been received for: ESCI 1101; Meets CLE req of Environment; meets CLE req of Physical Sciences
Instructor: Paola, Chris
Description: Geology is the study of the Earth: how it works, how it has evolved, and how it may change in the future. Geological processes have played a profound role in creating the environment we live in, and in both subtle and dramatic ways they help shape society and influence our lives today. This course provides an introduction to physical geology – a kind of user’s manual for the Earth? 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. The overall learning goal is to help you develop an understanding of the complexity and fascination of your home planet. Our overview of the Earth will range from the core to the atmosphere and plate tectonics to landscapes, with visits to some of the most spectacular and unexpected aspects of Earth dynamics en route. We will consider some of the ways in which Earth processes touch our lives, from resources like oil, gas, minerals, and geothermal energy to the hazards posed by earthquakes, floods, landslides, and volcanoes. Along the way we’ll consider the profound role that life has played in the dynamics of the Earth, and the surprising extent to which humans have become geologic agents in their own right. GEO 1001 satisfies the Council on Liberal Education’s requirements for both the environmental theme and as a physical science with lab. This course is designed for undergraduate students who are not geology majors and there are no prerequisites.
Style: 75% Lecture, 10% Film/Video, 10% Discussion, 5% Demonstration.
Grading: 25% final exam, 40% quizzes, 35% laboratory evaluation.
Exam Format: multiple choice

ESci 1001 Earth and Its Environments
4 credit(s); Credit will not be granted if credit has been received for: ESCI 1101; Meets CLE req of Environment; meets CLE req of Physical Sciences
Instructor: Ito, Emi
Description: Earth Science is the study of the Earth and its life. This is the world you live in, and geological processes have played an integral role in shaping our society and will affect your entire life. ESCI 1001 is an introduction to Earth Sciences, including the Earth’s materials, dynamic processes, and evolution. Earth’s physical and biological systems have influenced each other from the rise of atmospheric oxygen to major extinction events. Human civilization is the most recent example of this link. Human cultures are based on Earth resources and processes. Geological factors such as hazards and climate change have played a key role in human history and will likely determine our future. In turn, the human impact on Earth processes is nearly unprecedented, especially the rate at which the impact has been increasing. In a relatively short period of time, humans have become one of the most potent forces affecting the Earth processes. As human population and consumption continue to increase, it is critical that our society gains a better basic understanding of how our Earth operates, in order to better manage our own future. To that end, this course provides an introductory user’s manual for the Earth ESCI 1001 satisfies the Council on Liberal Education’s requirements for both the environmental theme and as a physical science with lab. This course is designed for undergraduate students who are not geology majors and there are no prerequisites.
Style: 80% Lecture, 10% Film/Video, 10% Discussion.
Grading: 15% final exam, 50% quizzes, 35% laboratory evaluation. 5 best of 7 biweekly quizzes count toward the grade
Exam Format: multiple choice, true/false

ESci 1001 Earth and Its Environments
4 credit(s); Credit will not be granted if credit has been received for: ESCI 1101; Meets CLE req of Environment; meets CLE req of Physical Sciences
Instructor: Edwards, Lawrence
Description: Student may contact the instructor or department for information.

ESci 1003 Dinosaur Evolution, Ecology, and Extinction: Introduction to the Mesozoic World
3 credit(s);
in a purely scientific context, but where the scientific method applied rigorously and with integrity will lead to uncover accurately determine ages of fossil remains. All three demonstrate how people will believe what they want to believe even fraudulent scheme. The Piltdown man controversy centers around the application of quantitative laboratory methods to application of new quantitative theories on metamorphism and mineral genesis as well as field observations to unravel a based on comparative anatomy and basic geological principles. The diamond caper demonstrates Clarence King's times, to demonstrate how the scientific method works and how it is capable of correcting errors as demonstrated by description on the importance of science depicted in the movie. The laboratory component introduces students to minerals and rocks, geologic maps and 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.

### ESci 1012 Natural Hazards and Disasters

**3 credit(s);Meets CLE req of Technology and Society**  
**Instructor:** Moskowitz,Bruce Matthew  
**Description:** The primary goals of this course are three-fold: (1) To educate students about the underlying natural process that give rise to natural hazards such as earthquakes, volcanic eruptions, tsunamis, floods, and more. (2) To emphasize how society evaluates and confronts the dangers posed by these natural processes from a political, social, and ethical perspective. (3) Expose students to the technological innovations that are allowing an increasing large human population to monitor, predict, and warn society about impending natural hazards and disasters. The aim here is not simply to better understand geologic hazards or be able to assess how hazards are minimized; it is also to give students a foundation for critically evaluating future approaches to managing hazards, from a technical, personal, and societal point of view. Case studies of recent and past natural disasters will be discussed, focusing on both the geological context of the hazard and its impact on society, individuals and the environment. Geo 1012 is designed for students without an extensive background in science or math and is one part of an environmental minor program in Geology and Geophysics.  
**Grading:** 50% mid exam, 25% final exam, 15% special projects, 10% written homework.

### ESci 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
ESci 1101 Introduction to Geology
3 credit(s); Credit will not be granted if credit has been received for: ESCI 1001; Meets CLE req of Environment
Instructor: Paola, Chris
Description: Geology is the study of the Earth: how it works, how it has evolved, and how it may change in the future. Geological processes have played a profound role in creating the environment we live in, and in both subtle and dramatic ways they help shape society and influence our lives today. This course provides an introduction to physical geology—a kind of “user’s manual” for the Earth? 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. The overall learning goal is to help you develop an understanding of the complexity and fascination of your home planet. Our overview of the Earth will range from the core to the atmosphere and plate tectonics to landscapes, with visits to some of the most spectacular and unexpected aspects of Earth dynamics en route. We will consider some of the ways in which Earth processes touch our lives, from resources like oil, gas, minerals, and geothermal energy to the hazards posed by earthquakes, floods, landslides, and volcanoes. Along the way we’ll consider the profound role that life has played in the dynamics of the Earth, and the surprising extent to which humans have become geologic agents in their own right. GEO 1001 satisfies the Council on Liberal Education’s requirements for both the environmental theme and as a physical science with lab. This course is designed for undergraduate students who are not geology majors and there are no prerequisites.
Style: 75% Lecture, 10% Film/Video, 10% Discussion, 5% Demonstration.
Grading: 25% final exam, 40% quizzes, 35% laboratory evaluation.
Exam Format: multiple choice

ESci 1101 Introduction to Geology
3 credit(s); Credit will not be granted if credit has been received for: ESCI 1001; Meets CLE req of Environment
Instructor: Ito, Emi
Description: Earth Science is the study of the Earth and its life. This is the world you live in, and geological processes have played an integral role in shaping our society and will affect your entire life. ESCI 1001 is an introduction to Earth Sciences, including the Earth’s materials, dynamic processes, and evolution. Earth’s physical and biological systems have influenced each other from the rise of atmospheric oxygen to major extinction events. Human civilization is the most recent example of this link. Human cultures are based on Earth resources and processes. Geological factors such as hazards and climate change have played a key role in human history and will likely determine our future. In turn, the human impact on Earth processes is nearly unprecedented, especially the rate at which the impact has been increasing. In a relatively short period of time, humans have become one of the most potent forces affecting the Earth processes. As human population and consumption continue to increase, it is critical that our society gains a better basic understanding of how our Earth operates, in order to better manage our own future. To that end, this course provides an introductory user’s manual for the Earth ESCI 1001 satisfies the Council on Liberal Education’s requirements for both the environmental theme and as a physical science with lab. This course is designed for undergraduate students who are not geology majors and there are no prerequisites.
Style: 80% Lecture, 10% Film/Video, 10% Discussion.
Grading: 25% final exam, 75% quizzes. Best 5 out of 7 biweekly quizzes count toward your grade (each one 15%)
Exam Format: multiple choice, true/false

ESci 1101 Introduction to Geology
3 credit(s); Credit will not be granted if credit has been received for: ESCI 1001; Meets CLE req of Environment
Instructor: Edwards, Lawrence
Description: Student may contact the instructor or department for information.
ESci 2202 Earth History  
A-F only, 4 credit(s);  
**Instructor:** Fox, David L  
**Description:** Student may contact the instructor or department for information.

ESci 2203 Earth Surface Dynamics  
A-F only, 4 credit(s);  
**Instructor:** Paola, Chris  
**Description:** Student may contact the instructor or department for information.

ESci 2302 Petrology  
3 credit(s);  
**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

ESci 3093 Problems in Earth Sciences: Junior  
1-4 credit(s), max credits 6, 6 completions allowed;  
**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

ESci 3402 Science and Politics of Global Warming  
3 credit(s); Credit will not be granted if credit has been received for: ESCRI 5402; Meets CLE req of Environment  
**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.

ESci 3890 Field Workshop  
1 credit(s), max credits 2;  
**Instructor:** Jennings, Carrie Ellen  
**Description:** Student may contact the instructor or department for information.

ESci 3891 Field Methods
ESci 4010 Undergraduate Seminar: Current Topics in Earth Sciences
1-4 credit(s), max credits 12, 12 completions allowed;
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

ESci 4093 Problems in Earth Sciences: Senior
1-4 credit(s), max credits 6, 6 completions allowed;
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.

ESci 4094 Senior Thesis
2 credit(s), max credits 4;
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

ESci 4103W Fossil Record of Mammals
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Fox, David L
Description: Student may contact the instructor or department for information.

ESci 4212 Solid Earth Geophysics II
A-F only, 3 credit(s);
Instructor: Revenaugh, Justin
Description: Student may contact the instructor or department for information.

ESci 4502 Tectonic Styles
3 credit(s);
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.

ESci 4602 Sedimentology and Stratigraphy
3 credit(s);
Instructor: Kleinspehn, Karen L
Description: This course explores sedimentary processes from the sub-microscopic to basin scale with a focus on
sediment transport, sedimentary structures and the petrology of detrital and carbonate sediment. The relationship among subsurface fluid chemistry, volume changes, microbiology and mineral diagenesis is a major emphasis. Other lecture topics include river systems, coastal/beach processes, storms/tsunamis, deltatic settings, tidal deposits, carbonate platforms, turbidite fans and deep-sea settings. Sea-level change and interpretation of seismic profiles are also covered in the laboratory. Lectures and labs are supported by samples and images of outcrops or modern deposits from multiple parts of the world. No textbook is assigned, but readings are listed for books that are on reserve in Walter Library. Handouts are supplied to support the lectures. Three exams are given including a final exam during finals week. This is an upper-level course for undergraduate majors in Earth Science. Students cannot register without having completed ESCI 2301 Mineralogy, including fluency in the use of the petrographic microscope. ESCI 2203 Earth Surface Dynamics is also a prerequisite.

Style: 40% Lecture, 5% Film/Video, 5% Discussion, 50% Laboratory.
Grading: 40% mid exam, 25% final exam, 35% laboratory evaluation. 2 Midterm exams = 2 x 20% = 40%
Exam Format: Mixed, e.g. short essay, multiple choice, fill in blanks, sketches/diagrams

ESci 4702 General Hydrogeology
3 credit(s);
Instructor: Tipping, Robert Glenn
Description: Student may contact the instructor or department for information.

ESci 4801 Geomicrobiology
3 credit(s);
Instructor: Jones, Daniel Seth
Description: Student may contact the instructor or department for information.

ESci 5093 Directed Studies in Earth Sciences
3 credit(s), max credits 16, 4 completions allowed;
Instructor: Hudleston, Peter John
Description: Student may contact the instructor or department for information.

ESci 5093 Directed Studies in Earth Sciences
3 credit(s), max credits 16, 4 completions allowed;
Instructor: Revenaugh, Justin
Description: Student may contact the instructor or department for information.

ESci 5093 Directed Studies in Earth Sciences
3 credit(s), max credits 16, 4 completions allowed;
Instructor: Jones, Daniel Seth
Description: Student may contact the instructor or department for information.

ESci 5203 Mineral and Rock Physics
3 credit(s);
Instructor: Kohlstedt, David L
Description: Student may contact the instructor or department for information.

ESci 5402 Science and Politics of Global Warming
3 credit(s); Credit will not be granted if credit has been received for: ESCI 3402;
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.
ESci 5705 Limnogeology and Paleoenvironment
3 credit(s);
Instructor: Ito, Emi
Description: Study of within-lake, hydrogeologic and landscape (geological and biological) processes that lead to the formation of various proxy records of paleoenvironment. Physical, geochemical, biogeochemical, and biotic proxies and how they relate to each other will be examined using a systems approach. Includes a general discussion of basic principles as well as specific case studies. Some emphasis will be placed on how various proxy records relate to paleoclimate. Each student will be responsible for leading the discussion of one case study and providing a written summary. The reading material will be drawn from various sources in the primary literature.

ESci 8994 Research in Earth Sciences
1-4 credit(s), max credits 30, 30 completions allowed;
Instructor: Whitney, Donna L
Description: Student may contact the instructor or department for information.

East Asian Studies
EAS 3462 From Subjects to Citizens: The History of East Asia From 1500 to the Present
3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HIST 3462; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Waltner, Ann Beth
Description: This course examines the history of East Asia from 1600 to the present. It examines the individual histories of countries in the region (China, Japan, Korea and Vietnam) as well as their connections with one another and their roles in an increasingly interconnected world. Questions of national, regional, local, and personal identity will be examined in lecture, and through discussion of readings and objects of material culture. As the title of the course implies, the course will be interested in the changing political scenarios and the different ways in which individuals are located in those political scenarios. As the semester progresses the subject matter of the course will become more thematically integrated. The class will discuss topics raised in the readings such as gender, ethnicity, religion, nationalism and so on. In addition we will make use of the abundant resources at the Minneapolis Institute of Arts, the James Ford Bell Library, and the Weisman Art Museum to explore aspects of the material culture of East Asia during this period. There will be two lectures and one discussion section per week. Students will be required to post questions and comments on the reading on the course moodle site regularly. There will be a take-home midterm and a final short paper (5-7 pages) on one of the memoirs we read in class.
Style: 60% Lecture, 35% Discussion, 5% Field Trips.
Grading: 25% mid exam, 25% reports/papers, 10% attendance, 15% class participation.
Exam Format: Midterm exam will be a take home exam.

EAS 3462H Honors: From Subjects to Citizens: The History of East Asia from 1500 to the Present
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 3462; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Waltner, Ann Beth
Description: Student may contact the instructor or department for information.

EAS 3462H Honors: From Subjects to Citizens: The History of East Asia from 1500 to the Present
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 3462; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Waltner, Ann Beth
Description: Student may contact the instructor or department for information.

EAS 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 3479;
Instructor: Wang, Liping
Description: This course aims for students to have a better understanding of present-day China, especially its rapid urban expansion, by exploring history of Chinese cities and urban life. It begins by discussing the question why pre-modern China, an agrarian society, had some of the largest cities in the world. We will study the planning and building of traditional Chinese cities, and the urban life they housed. The course will then focus on Chinese urban experience in the late 19th and the 20th century, when cities became the focal point of modernization. We will analyze the reasons why it was during this period that Shanghai and Hong Kong emerged from obscurity to great metropolises, while many older cities declined. The class will then examine the role of cities given by the Chinese Communist Party, a party well known for its victory based on
peasant support. We will look at the ways cities are shaped in PRC, and how their material shapes in turn framed lives in them.

**Echocardiography**  University of Minnesota Rochester

**Echo 3202 Adult Echocardiography**
A-F only, 6 credit(s);
Instructor: Finstuen, Joshua Allen
Description: Student may contact the instructor or department for information.

**Echo 3302 Clinical Practicum II**
A-F only, 7 credit(s);
Instructor: Finstuen, Joshua Allen
Description: Student may contact the instructor or department for information.

**Echo 4112 Ultrasound Physics II**
A-F only, 2 credit(s);
Instructor: Finstuen, Joshua Allen
Description: Student may contact the instructor or department for information.

**Echo 4402 Clinical Practicum V**
A-F only, 10 credit(s);
Instructor: Finstuen, Joshua Allen
Description: Student may contact the instructor or department for information.

**Echo 4501 Research Project and Publication I**
A-F only, 1 credit(s);
Instructor: Finstuen, Joshua Allen
Description: Student may contact the instructor or department for information.

**Ecology, Evolution, and Behavior**  100 Ecology Building

**EEB 3001 Ecology and Society**
A-F only, 3 credit(s); [Jr or sr] recommended; biological sciences students may not apply cr toward major
Credit will not be granted if credit has been received for: BIOL 3407; Meets CLE req of Environment
Instructor: Borer, Elizabeth
Description: Because of rapid human population growth and even more rapid advances in technology, humans now affect nearly every aspect of our global environment. In this changing world, informed citizens need to understand the interconnectedness of issues such as global warming, habitat destruction, pollution, disease, and biodiversity. In this context, this course introduces basic concepts in ecology for non-majors, with an emphasis on understanding the science relevant to issues facing society. Through projects, readings, discussions, and lectures, we will explore the role of humans in - and reliance on - natural environments. The three main themes of the course are: 1) natural history of local, regional, and global environments, 2) biological diversity in a changing world, and 3) ecosystems that sustain us.

**EEB 3002 Sex, Evolution, and Behavior: Examining Human Evolutionary Biology**
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: ANTH 3002;
Instructor: Garrett, Niki
Description: Student may contact the instructor or department for information.

**EEB 3603 Science, Protection, and Management of Aquatic Environments**
3 credit(s);
Instructor: Finlay, Jacques C
Description: This course is an introduction to the ecology of freshwater environments with an emphasis on human alteration and management of lakes and stream ecosystems. The course is intended primarily for undergraduate students who have had Introductory Biology and who want additional exposure to environmental science and ecology. Emphasis will be placed on discussing the way that science has been used to address practical problems in such areas as eutrophication, climate change, invasive species, acid rain, wetland protection, and biodiversity preservation. This course will teach the fundamentals of aquatic ecology by considering a series of water problems society has faced or is currently facing. After introducing the water problem, the course will focus upon the scientific approaches used to diagnose and remediate or remove the problems.
EEB 4068 Plant Physiological Ecology

**OPT No Aud, 3 credit(s); BIOL 2022 or BIOL 3002 or BIOL 3407 or BIOL 3408W or instr consent Credit will not be granted if credit has been received for: EEB 5068;**

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

**Description:** This lecture and laboratory course will consider how plants function in an ecological context that includes, for example, variation in the abiotic environment, symbioses with fungi and other organisms, competition with neighbors, and herbivore pressure. We examine how the stresses encountered in ecological settings impact the major physiological processes of plants, including photosynthesis, respiration, water uptake and transport, and nutrient uptake and assimilation. We will explore how plants survive in deserts, rainforests, in the Arctic circle, and here in the Minnesota prairie through lectures, discussion of primary literature, in class labs, and a field trip to the Cedar Creek Ecosystem Science Reserve. Lectures and readings will present theoretical advances in physiological ecology, and labs will teach both classic and cutting-edge techniques aimed at understanding how plants function, respond to stress, and compete for and allocate resources in the face of constantly changing environments. Laboratory techniques will prepare students for empirical research in plant physiological ecology. These techniques will include measurement of relative humidity, temperature, vapor pressure deficit and boundary layer conductance; soil moisture; gas exchange; chlorophyll fluorescence; wood and leaf anatomy; water potential; sapflow; and plant hydraulic architecture and water transport. The course includes an interactive website.

EEB 4134 Introduction to Ornithology

**4 credit(s);**

**Instructor:** Zink, Robert Martin

**Description:** Birds constitute one of the better known groups of organisms. In this course, we will deal with many aspects of bird biology in a lecture, field, and laboratory setting. Students will learn to identify many species of birds occurring in Minnesota through examination of specimens in lab and through field identification in weekly walks around the St. Paul campus. We will spend considerable time learning about ecology and behavior of birds, and students will gather data on the behavior of a common local species which will be pooled with observations of other class members. We will consider how the scientific study of birds can lead to better conservation practices. Course will be web-enhanced. Target Audience: Upper-division undergraduates and graduate students.

**Style:** 40% Lecture, 60% Laboratory.

**Grading:** 20% mid exam, 20% final exam, 60% laboratory evaluation.

**Exam Format:** multiple choice; essay

EEB 4611 Biogeochemical Processes

**3 credit(s);**

**Instructor:** Cotner, James B

**Description:** Application of biochemistry, ecology, chemistry, and physics to environmental issues. Impact of humans on biogeochemical processes in soils, lakes, oceans, estuaries, forests, urban/managed ecosystems, and extreme environments (e.g., early Earth, deep sea vents, thermal springs).

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

**Grading:** 20% mid exam, 20% final exam, 20% reports/papers, 20% in-class presentation, 20% problem solving.

**Exam Format:** Essay

EEB 4793W Directed Studies: Writing Intensive

**S-N only, 1-7 credit(s), max credits 7, 7 completions allowed; Meets CLE req of Writing Intensive**

**Instructor:** Hobbie, Sarah E

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

EEB 4794W Directed Research: Writing Intensive

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

**Instructor:** Zink, Robert Martin

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

EEB 4993 Directed Studies

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

**Instructor:** Cotner, James B

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

EEB 4994 Directed Research
EEB 5068 Plant Physiological Ecology
OPT No Aud, 3 credit(s); BIOL 2022 or BIOL 3002 or BIOL 3407 or BIOL 3408W or instr consent Credit will not be granted if credit has been received for: EEB 4068;
Instructor: Cavender-Bares, Jeannine Marie
Description: This lecture and laboratory course will consider how plants function in an ecological context that includes, for example, variation in the abiotic environment, symbioses with fungi and other organisms, competition with neighbors, and herbivore pressure. We examine how the stresses encountered in ecological settings impact the major physiological processes of plants, including photosynthesis, respiration, water uptake and transport, and nutrient uptake and assimilation. We will explore how plants survive in deserts, rainforests, in the Arctic circle, and here in the Minnesota prairie through lectures, discussion of primary literature, in class labs, and a field trip to the Cedar Creek Ecosystem Science Reserve. Lectures and readings will present theoretical advances in physiological ecology, and labs will teach both classic and cutting-edge techniques aimed at understanding how plants function, respond to stress, and compete for and allocate resources in the face of constantly changing environments. Laboratory techniques will prepare students for empirical research in plant physiological ecology. These techniques will include measurement of relative humidity, temperature, vapor pressure deficit and boundary layer conductance; soil moisture; gas exchange; chlorophyll fluorescence; wood and leaf anatomy; water potential; sapflow; and plant hydraulic architecture and water transport. The course includes an interactive website.

EEB 5146 Science and Policy of Global Environmental Change
A-F only, 3 credit(s); Biol 3407 Biol 5407 or equiv Credit will not be granted if credit has been received for: FNRM 5146;
Instructor: Hobbie, Sarah E
Description:

EEB 5322 Evolution and Animal Cognition
3 credit(s);
Instructor: Stephens, David William
Description: Student may contact the instructor or department for information.

EEB 8202 Graduate Foundations in Ecology, Evolution and Behavior - Semester 2
A-F only, 4 credit(s);
Instructor: Travisano, Michael
Description: Student may contact the instructor or department for information.

EEB 8980 Seminar on Current Topics
S-N only, 1 credit(s), max credits 30, 10 completions allowed;
Instructor: Hobbie, Sarah E
Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar
1-3 credit(s), max credits 30, 10 completions allowed;
Instructor: Shaw, Ruth Geyer
Description: Student may contact the instructor or department for information.

EEB 8990 Graduate Seminar
1-3 credit(s), max credits 30, 10 completions allowed;
Instructor: Barker, Fredrick K
EEB 8990 Graduate Seminar
1-3 credit(s), max credits 30, 10 completions allowed;
Instructor: Bratt, Anika R
Description: Student may contact the instructor or department for information.

Economics 4-101 Hanson Hall

Econ 1101 Principles of Microeconomics
4 credit(s); 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
Global Perspectives; meets CLE req of Social Sciences
Instructor: STAFF
Description: Econ 1101 satisfies the CLE requirements of the Social Science Core and of the Global Perspectives Theme. 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, 25% Discussion.
Grading: All ECON 1101 students (in all sections) will take the midterm exams and final exam at the same time/day; there will be evening exams.
Exam Format: All ECON 1101 lectures (and accompanying recitation sections) will have two common midterm exams and one common final exam. These will be in the evening and will be announced on the course syllabi.

Econ 1102 Principles of Macroeconomics
4 credit(s); [1101 or equiv], knowledge of plane geometry and advanced algebra credit will not be granted if credit received for: 1105, 1112, ApEc 1102 Credit will not be granted if credit has been received for: APEC 1102;
Instructor: STAFF
Description: This is an introductory course in Economics, to be taken after completing Econ 1101. It includes the study of macroeconomic indicators; the role of money; role of fiscal and monetary policy; international trade; interdependencies among nations.
Style: 75% Lecture, 25% Discussion. discussion section
Grading: See attached syllabus

Econ 1102 Principles of Macroeconomics
4 credit(s); [1101 or equiv], knowledge of plane geometry and advanced algebra credit will not be granted if credit received for: 1105, 1112, ApEc 1102 Credit will not be granted if credit has been received for: APEC 1102;
Instructor: Amin, Minesh Devendra
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. 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: Online
Grading: See attached syllabus

Econ 3101 Intermediate Microeconomics
4 credit(s); [1101, 1102] or equiv, [MATH 1271 or equiv] Credit will not be granted if credit has been received for:
APEC 3001;
Instructor: STAFF
Description: This is a required course for Economics majors, and is a prerequisite for most upper-division Economics courses. It essentially provides you with tools necessary to work with economic theory. Students should have completed Calculus I successfully PRIOR to taking this course. Students are NOT permitted to take Calc I concurrently. The course includes the study of consumer and producer behavior under competitive and monopolistic conditions; factors influencing production, price, and other decisions of the firm; applications of the theory. The course includes a large lecture taught by an instructor, and discussion sections taught by TAs.

Style: 75% Lecture, 25% Discussion.

Exam Format: problems, short essays

Econ 3102 Intermediate Macroeconomics
4 credit(s); 3101 or equiv
Credit will not be granted if credit has been received for: APEC 3006;
Instructor: STAFF
Description: This is one of the two basic tool courses for Economics majors. The prerequisite is Econ 3101, which students must have completed successfully PRIOR to taking this course. Students are NOT permitted to take both concurrently, or take Econ 3102 prior to Econ 3101. The course includes determinants of national income, employment, and price level; effects of fiscal and monetary policies; with an emphasis on a general equilibrium approach. Economic growth is also discussed.

Style: 100% Lecture.

Exam Format: Problems and short essays

Econ 3951 Major Project Seminar
A-F only, 2 credit(s);
Instructor: STAFF
Description: A senior project is a requirement for the BA and BA-Q degrees in Economics. Students work with the instructor to produce a significant piece of written work in Economics. Criteria for the paper: to demonstrate critical thinking in Economics; collection and analysis of data; economic analysis and effective interpretation of results. Should be modeled as an economics journal article. Check the Undergraduate Handbook (web version or hard copy) on the four ways to satisfy this requirement. Students will receive the syllabus via email.

Style: No formal meeting time. Please contact the instructor via email.

Grading: 100% reports/papers.

Econ 3960 Topics in Economics
3 credit(s), max credits 6;
Instructor: STAFF
Description: FALL 2012: The Chinese Economy

Style: 90% Lecture, 10% Discussion.

Exam Format: Essay and short problems

Econ 4100W Undergraduate Writing in Economics
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Students can sign up for this one-credit course if they are concurrently registered for an Economics Honors course or for Econ 4831. This will enable them to make the honors course writing intensive. Students receive the assignment from the instructor of the honors course. The Econ 4100W TA works with students to help them write the paper. Students turn in various drafts to the TA and receive feedback on every assignment. The final product is the completed paper.

Grading: 100% reports/papers.

Econ 4113H Introduction to Mathematical Economics Honors
A-F only, 4 credit(s); [3101, 3102 or equiv], [MATH 1271, MATH 1272, MATH 2243 or equiv], honors student
Credit will not be granted if credit has been received for: ECON 4118;
Instructor: Rahman, David Masiur
Description: Student may contact the instructor or department for information.

Econ 4163 Microeconomic Analysis
2 credit(s);
Instructor: Rustichini, Aldo
Description: Student may contact the instructor or department for information.

Econ 4164 Microeconomic Analysis
2 credit(s);
Instructor: Rahman, David Masiur
Econ 4167 Macroeconomic Theory
2 credit(s);
Instructor: Chari, Varadarajan V
Description: This course complements 8105-8107. The ultimate goal of this course is to learn to use a variety of models that can be used to give quantitative answers to economic questions. The models can generate artificial data of both allocations and prices that can be meaningfully related to actual data. In this course most (if not all) of the material will be studied from the strict point of view of the theory, so we will not look at data in any serious manner nor at solving the models with the computer. The emphasis is on economic rigor, i.e. the target is to learn tools that will be useful later. The course, then, is not a survey of topics in macroeconomics. When some specific topic is addressed the objective is not to give a review of known results but rather to give an example of how an issue is addressed and of how tools are used. We will review dynamic general equilibrium models: solving for paths of interest rates, consumption, investment, prices. Models with uncertainty, search, matching, indivisibilities, private information. Implications for measurement and data reporting. Overlapping generations and dynasty models. Variational and recursive methods.

Econ 4168 Macroeconomic Theory
2 credit(s);
Instructor: Rios-Rull, Victor

Econ 4261 Introduction to Econometrics
A-F only, 4 credit(s);
Instructor: STAFF
Description: This is a required course for Economics B.S. majors. Students must have completed all prerequisites successfully PRIOR to taking this course. The course includes the basic linear regression model, time series analysis, panel data, discrete choice models. Computer applications (normally GAUSS is used).
Style: 75% Lecture. Recitation discussion
Exam Format: problems

Econ 4311 Economy of Latin America
3 credit(s);
Instructor: STAFF
Description: Economic evolution in Latin America since the 1950s. Development, growth, trade, liberalization, poverty, inflation, budgets, other important issues in the Latin American economies.
Style: 90% Lecture, 10% Discussion.
Exam Format: problems

Econ 4331W Economic Development
3 credit(s);[3101, 3102] or equiv, completion of freshman writing practiceCredit will not be granted if credit has been received for: ECON 4301; Meets CLE req of Writing Intensive
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);3101, 3102 or equiv Credit will not be granted if credit has been received for: ECON 4307;
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 4401 International Economics
3 credit(s); Meets CLE req of Global Perspectives
Instructor: STAFF
Description: Econ 4401 satisfies the Global Perspectives Theme requirement as set by the Council on Liberal Education. This course is not for Economics majors. Includes material on international trade and international finance. Theories of trade, trade restrictions, commercial policy. Exchange rates, international monetary systems. Students write a country paper.
Econ 4431V Honors Course: International Trade
4 credit(s); [3101, 3102] or equiv, Math 1271, completion of freshman writing practice
Credit will not be granted if credit has been received for: ECON 4431W; Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: STAFF
Description: Offered mainly for Economics majors. The course studies international trade including trade theories, trade and growth, trade restrictions, regional trading blocs, protection, and regional integration. This is a writing intensive course, and students need at least a C in the paper to pass the course. Main emphasis on trade theories. URL address will be available later.
Style: 95% Lecture, 5% Discussion.

Econ 4431W International Trade
3 credit(s); [3101, 3102] or equiv, freshman writing practice
Credit will not be granted if credit has been received for: ECON 4431V; Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Sahi, Simran
Description: Econ 4431W satisfies the Global Perspectives Theme requirement of CLE. It is also a Writing Intensive course. Offered mainly for Economics majors, though we happily accept other students if they have successfully completed the prerequisites PRIOR to taking the course. The course studies international trade including trade theories, trade and growth, trade restrictions, regional trading blocs, protection, and regional integration. This is a writing intensive course, and students need at least a C in the paper to pass the course. Real world applications and examples abound. URL address will be available later.
Style: 90% Lecture, 10% Discussion.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% problem solving. Evaluation is subject to change.
Exam Format: essay and true/false explain.

Econ 4432W International Finance
3 credit(s); 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 4531 Labor Economics
3 credit(s);
Instructor: STAFF
Description: Economic analysis of labor markets; population and labor force; labor market institutions; wage and employment theories; labor unions and bargaining; public policy.
Style: 90% Lecture, 10% Discussion.
Exam Format: problems, short essay

Econ 4621 Urban Economics
3 credit(s); [3101, 3102] or equivalents
Credit will not be granted if credit has been received for: ECON 4621H;
Instructor: Kim, Bitmaro
Description: Student may contact the instructor or department for information.

Econ 4631 Industrial Organization and Antitrust Policy
3 credit(s); 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. Some case studies. This course is sometimes offered concurrently with Econ 3601.
Style: 90% Lecture, 10% Discussion.
Exam Format: problems and short essays

Econ 4721 Money and Banking
3 credit(s); [3101, 3102] 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. Monetary policy.
Style: 95% Lecture, 5% Discussion.

Econ 4731 Macroeconomic Policy
3 credit(s);
Instructor: STAFF
Description: The emphasis of this course is on Macroeconomic Policy, studied in a quantitatively rigorous way. We begin by reviewing the household consumption and leisure choice, and the market-clearing model. We then study inflation, unemployment, growth, taxation, government debt, and monetary policy and fiscal policy.
Style: 95% Lecture, 5% Discussion.
Exam Format: problems, short essay

Econ 4741H Honors: Quantitative Analysis of the Macroeconomy
4 credit(s);
Instructor: STAFF
Style: 95% Lecture, 5% Discussion.
Exam Format: problems, short essays

Econ 4751 Financial Economics
3 credit(s); [3101 or equiv], [MATH 1271 or equiv], one sem statistics Credit will not be granted if credit has been received for: ECON 4751H;
Instructor: STAFF
Style: 95% Lecture, 5% Discussion.
Exam Format: problems

Econ 4821 Public Economics
3 credit(s); = ECON 3801; prereq 3101, 3102 or equiv Credit will not be granted if credit has been received for: ECON 3801;
Instructor: STAFF
Style: 95% Lecture, 5% Discussion.
Exam Format: Short essays, problem solving

Econ 4831 Cost-Benefit Analysis
3 credit(s); 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;
Instructor: STAFF
Description: This is for economics honors theses only.

Econ 8003 Microeconomic Analysis
2 credit(s);
Instructor: Rustichini,Aldo
Description: Student may contact the instructor or department for information.

Econ 8004 Microeconomic Analysis
2 credit(s);
Instructor: Rahman,David Masiur
Description: Student may contact the instructor or department for information.
Econ 8103 Microeconomic Theory
2 credit(s);
Instructor: Rustichini, Aldo
Description: Student may contact the instructor or department for information.

Econ 8104 Microeconomic Theory
2 credit(s);
Instructor: Rahman, David Masiur
Description: Student may contact the instructor or department for information.

Econ 8107 Macroeconomic Theory
2 credit(s);
Instructor: Chari, Varadarajan V
Description: Student may contact the instructor or department for information.

Econ 8108 Macroeconomic Theory
2 credit(s);
Instructor: Rios-Rull, Victor
Description: This course complements 8105-8107. The ultimate goal of this course is to learn to use a variety of models that can be used to give quantitative answers to economic questions. The models can generate artificial data of both allocations and prices that can be meaningfully related to actual data. In this course most (if not all) of the material will be studied from the strict point of view of the theory, so we will not look at data in any serious manner nor at solving the models with the computer. The emphasis is on economic rigor, i.e. the target is to learn tools that will be useful later. The course, then, is not a survey of topics in macroeconomics. When some specific topic is addressed the objective is not to give a review of known results but rather to give an example of how an issue is addressed and of how tools are used. We will review dynamic general equilibrium models: solving for paths of interest rates, consumption, investment, prices. Models with uncertainty, search, matching, indivisibilities, private information. Implications for measurement and data reporting. Overlapping generations and dynasty models. Variational and recursive methods.

Econ 8118 Noncooperative Game Theory
2 credit(s);
Instructor: Sher, Itai
Description: Student may contact the instructor or department for information.

Econ 8119 Cooperative Game Theory
2 credit(s);
Instructor: Allen, Beth Elaine
Description: Student may contact the instructor or department for information.

Econ 8182 Advanced Topics in Microeconomics
2 credit(s), max credits 4;
Instructor: Rustichini, Aldo
Description: Student may contact the instructor or department for information.

Econ 8182 Advanced Topics in Microeconomics
2 credit(s), max credits 4;
Instructor: Rahman, David Masiur
Description: Student may contact the instructor or department for information.

Econ 8186 Advanced Topics in Macroeconomics
2 credit(s), max credits 4;
Instructor: McGrattan, Ellen Rose
Description: Student may contact the instructor or department for information.

Econ 8192 Workshop in Mathematical Economics
1-3 credit(s), max credits 10, 10 completions allowed;
Instructor: Rustichini, Aldo
Description: Student may contact the instructor or department for information.

Econ 8207 Applied Econometrics
Econ 8208 Applied Econometrics
  2 credit(s);
  Instructor: Kim, Kyoo-il
  Description: Student may contact the instructor or department for information.

Econ 8312 Economic Growth and Development
  2 credit(s);
  Instructor: Schmitz Jr, James A
  Description: Student may contact the instructor or department for information.

Econ 8392 Workshop in Economic Growth and Development
  1-3 credit(s), max credits 10, 10 completions allowed;
  Instructor: Chari, Varadarajan V
  Description: Student may contact the instructor or department for information.

Econ 8403 International Trade and Payments Theory
  2 credit(s);
  Instructor: Arellano, Cristina
  Description: Student may contact the instructor or department for information.

Econ 8404 International Trade and Payments Theory
  2 credit(s);
  Instructor: Kehoe, Patrick James
  Description: Student may contact the instructor or department for information.

Econ 8492 Workshop in Trade and Development
  1-3 credit(s), max credits 10, 10 completions allowed;
  Instructor: Kehoe, Timothy J
  Description: Student may contact the instructor or department for information.

Econ 8501 Wages and Employment
  2 credit(s);
  Instructor: Guvenen, Fatih
  Description: Student may contact the instructor or department for information.

Econ 8503 Wages and Employment
  2 credit(s), max credits 4;
  Instructor: Rios-Rull, Victor
  Description: This course should be thought of as a Labor course with a close link to Macro that should be of interest to people with interest in both areas. Its main purpose is to learn the map from models to data i.e. to answer quantitative questions that we are interested in (in the process of doing so, some interesting theoretical questions arise). We will develop tools by stating general questions, and then discussing how to approach its answer. We will look at models of individual decision making, obviously, but mostly in the context of equilibrium models. We will look at representative agent models, models with a continuum of agents represented with measures, overlapping generations models, as well as models where agents form households. We will look at models where equilibria are optima and where they are not. We will look at stationary and non-stationary equilibria. We will look at models without perfect commitment and without perfect information. A necessary condition to be able to do applied theory is to be able to characterize some properties of the world. This involves the capability of accessing some data and of understanding the way it is organized as well as the principles that guide the construction of the main sources. This requires some knowledge of NIPA and of the way data are organized.

Econ 8582 Advanced Topics in Labor Economics
  2 credit(s), max credits 4;
  Instructor: Rios-Rull, Victor
  Description: Student may contact the instructor or department for information.
Econ 8692 Workshop in Applied Microeconomics
1-3 credit(s), max credits 10, 10 completions allowed;
Instructor: Holmes, Thomas Joseph
Description: Student may contact the instructor or department for information.

Econ 8703 Monetary Economics
2 credit(s), max credits 4;
Instructor: Kehoe, Patrick James
Description: Student may contact the instructor or department for information.

Econ 8704 Financial Economics
2 credit(s);
Instructor: Werner, Jan
Description: Student may contact the instructor or department for information.

Econ 8705 Financial Economics
2 credit(s);
Instructor: Luttmer, Erzo
Description: Student may contact the instructor or department for information.

Econ 8802 Public Economics
2 credit(s);
Instructor: Jones, Larry
Description: Student may contact the instructor or department for information.

Econ 8803 Public Economics
2 credit(s);
Instructor: Chari, Varadarajan V
Description: Student may contact the instructor or department for information.

Education and Human Development 110 Wulling Hall

EdHD 1620 Current Topics: Strategies for Student Success: Going Global: Planning, Preparing, Maximizing
1 credit(s), max credits 6, 6 completions allowed;
Instructor: Riley, Donald P
Description: This course will put you in control of how people know you and provide you with the experiences, resources and tools you need to not only discover your unique personal brand, but to help you maintain and update your brand as your professional experiences, visions and goals evolve. Involve a variety of self discovery activities, this course will help you discover your unique brand and will end with a roadmap to the actual launch of your online identity.

EdHD 1620 Current Topics: Strategies for Student Success: Navigating Difficult Conversations
1 credit(s), max credits 6, 6 completions allowed;
Instructor: McAvoy, Molly Kathryn
Description: Conflict is normal, even healthy, and an opportunity to grow, learn and improve relationships. This course will help you develop strategies for addressing conflict and raising difficult issues. It is designed to expose you to the tools and experiences that will allow you to resolve issues professionally, respectfully, methodically.

EdHD 1620 Current Topics: Strategies for Student Success: Teamwork: Surviving to Thriving
1 credit(s), max credits 6, 6 completions allowed;
Instructor: Mein, Jen L
Description: This course will provide students with strategies and experiences that will help them thrive while working as a team. It will include opportunities to explore how groups develop, ways to manage difficult people/situations, and how their strengths can help them thrive in a group setting.

EdHD 1620 Current Topics: Strategies for Student Success: Preparing for Meaningful Internships
1 credit(s), max credits 6, 6 completions allowed;
Instructor: Wolfe, Sarah C
Description: This course should appeal to a first-year student looking to set themselves apart as they look for an internship to a upperclassman preparing for to land their dream job.
EdHD 1620 Current Topics: Strategies for Student Success: Preparing for Meaningful Community Engagement
1 credit(s), max credits 6, 6 completions allowed;
Instructor: Cameron, Amber Jo Swiggum
Description: The impact engagement experiences can have for students and the impact engagement experiences can have for community partners is limitless. This course is designed to serve as a catalyst for a life of active citizenship and social responsibility. It will offer you an opportunity to identify your assets and motivations for community work and prepare you for mutually meaningful, positive work that has a lasting impact. Class work will prepare you to artfully explore ambiguity, reduce awkwardness, clarify roles, develop etiquette and communication skills, and prepare for experiences that have a lasting impact.

EdHD 1620 Current Topics: Strategies for Student Success: Building your Professional Network
1 credit(s), max credits 6, 6 completions allowed;
Instructor: Maples, Alyssa
Description: Are you preparing for the job or internship hunt? Are you mystified by asking professors to write a reference letter for you? Are you desperate to learn more about a career path or industry, but are uncomfortable with the idea of interviewing someone who is currently in the industry? Are you trying to find the right way to succinctly articulate your strengths and professional skills? Do you want to learn more about professional networking? Perfect. You are in the right place! Tactfully initiating and managing your professional network can quickly and efficiently open doors and expose you to opportunities that might otherwise be unattainable or unknown. Additionally, the largest majority of job opportunities are found through a professional network. You really cannot afford to neglect it! This course will provide you with hands-on experiences that will simplify and demystify the development of your professional network and you will leave with an extensive repository of resources, tools and strategies that will help you maximize your network as your personal and professional experiences and goals evolve.

EdHD 1620 Current Topics: Strategies for Student Success: Graduate School: Exploring, Preparing, Applying
1 credit(s), max credits 6, 6 completions allowed;
Instructor: Keeney, Brianne E
Description: This class is designed for students who are either exploring the idea of attending graduate school or for students planning to attend graduate school. Students will examine their career goals and associated educational needs. By the end of the course, students will have researched specific graduate programs, planned letters of recommendation, considered financial aid options, written a statement of purpose, and developed an application timeline and to-do list.

EdHD 1620 Current Topics: Strategies for Student Success: Developing your Personal Brand and Online Identity
1 credit(s), max credits 6, 6 completions allowed;
Instructor: Calhoun, Austin Stair
Description: Personal branding is a way to identify who you are, what differentiates you from others, and what makes you exceptional. Your personal brand makes you authentic and relevant and helps you stand out from the crowd. It’s what makes YOU you. A personal brand can expand opportunities for your personal and professional success, both now and in your future endeavors.

EdHD 1920 CEHD Special Topics
1 credit(s), max credits 6;
Instructor: Boehm, Eva Lynn
**EdHD 1920 CEHD Special Topics**
1 credit(s), max credits 6;
Instructor: Boehm, Eva Lynn
Description: Student may contact the instructor or department for information.

**EdHD 1920 CEHD Special Topics**
1 credit(s), max credits 6;
Instructor: Boehm, Eva Lynn
Description: Student may contact the instructor or department for information.

**EdHD 3002 Exploring the Teaching Profession II**
A-F only, 2 credit(s);
Instructor: Stone PhD, Karla
Description: Student may contact the instructor or department for information.

**EdHD 4001 Teaching Students with Special Needs in Inclusive Settings**
A-F only, 1 credit(s);
Instructor: Kelley, Mary Beth
Description: Student may contact the instructor or department for information.

**EdHD 5001 Learning, Cognition, and Assessment**
3 credit(s); 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: Wang, Jeremy Yi-Ming
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);
Instructor: Kelley, Mary Beth
Description: Student may contact the instructor or department for information.

**EdHD 5005 School and Society**
A-F only, 2 credit(s);
Instructor: Cushing-Leubner, Jenna
Description: Student may contact the instructor or department for information.

**EdHD 5005 School and Society**
A-F only, 2 credit(s);
Instructor: Tobin, Jessica I
Description: Student may contact the instructor or department for information.

**EdHD 5007 Technology for Teaching and Learning**
A-F only, 1.5 credit(s);
Instructor: Noland, Brenna E
Description: Student may contact the instructor or department for information.

**EdHD 5007 Technology for Teaching and Learning**
A-F only, 1.5 credit(s);
Instructor: Garrison, Mark Scanlan
Description: Student may contact the instructor or department for information.

**EdHD 5007 Technology for Teaching and Learning**
A-F only, 1.5 credit(s);
Instructor: McGill, Chuck
Description: Student may contact the instructor or department for information.

**EdHD 5008 Reading in the Content Areas for Initial Licensure Candidates**
EdHD 5009 Human Relations: Applied Skills for School and Society
A-F only, 1 credit(s);
Instructor: Lefebvre, Elisabeth
Description: Student may contact the instructor or department for information.

EdHD 5014 Child and Adolescent Development for Teaching and Learning
A-F only, 2 credit(s);
Instructor: LoBello, Jana
Description: Student may contact the instructor or department for information.

EdHD 5016 Teaching Students with Special Needs in Inclusive Settings
A-F only, 1 credit(s);
Instructor: Lachermeier, Thomas R
Description: Student may contact the instructor or department for information.

EdHD 5018 Academic Language and English Learners
A-F only, 1 credit(s);
Instructor: Ranney, Susan Elaine
Description: Student may contact the instructor or department for information.

EdHD 5020 Cultures, Schools, and Communities (Human Relations)
A-F only, 1 credit(s); Enrolled in teacher initial licensure program Credit will not be granted if credit has been received for: EDHD 5000;
Instructor: Goh PhD, Michael P.
Description: Student may contact the instructor or department for information.

EdHD 5300 Special Topics in Education and Human Development: MCRR Literacy Instruction in Elementary Grades
A-F only, 1-6 credit(s), max credits 12, 7 completions allowed;
Instructor: Peterson, Debra Stevens
Description: Student may contact the instructor or department for information.
EdHD 5300 Special Topics in Education and Human Development: Center for Early Education Development
Coursework
A-F only, 1-6 credit(s), max credits 12, 7 completions allowed;
Instructor: Anderson,Karen L
Description: Student may contact the instructor or department for information.

EdHD 5300 Special Topics in Education and Human Development: Center for Early Education Development
Coursework
A-F only, 1-6 credit(s), max credits 12, 7 completions allowed;
Instructor: Watson PhD,Christopher L
Description: Student may contact the instructor or department for information.

EdHD 5300 Special Topics in Education and Human Development: Center for Early Education Development
Coursework
A-F only, 1-6 credit(s), max credits 12, 7 completions allowed;
Instructor: Watson PhD,Christopher L
Description: Student may contact the instructor or department for information.

EdHD 5300 Special Topics in Education and Human Development: Center for Early Education Development
Coursework
A-F only, 1-6 credit(s), max credits 12, 7 completions allowed;
Instructor: Watson PhD,Christopher L
Description: Student may contact the instructor or department for information.

EdHD 5300 Special Topics in Education and Human Development: Center for Early Education Development
Coursework
A-F only, 1-6 credit(s), max credits 12, 7 completions allowed;
Instructor: Watson PhD,Christopher L
Description: Student may contact the instructor or department for information.

EdHD 5300 Special Topics in Education and Human Development: Minnesota Writing Project Literacy Workshop Series
A-F only, 1 credit(s), max credits 12, 7 completions allowed;
Instructor: Thompson,Muriel
Description: Student may contact the instructor or department for information.

EdHD 5300 Special Topics in Education and Human Development: EngrTEAMS: Integration Classroom Implementation
A-F only, 1-6 credit(s), max credits 12, 7 completions allowed;
Instructor: Roehrig,Gillian Heather
Description: Student may contact the instructor or department for information.

EdHD 5300 Special Topics in Education and Human Development: Marriage and Family Therapy Supervision
A-F only, 2 credit(s), max credits 12, 7 completions allowed;
Instructor: Harris,Steven Michael
Description: Student may contact the instructor or department for information.

Educational Psychology 250 Education Science Building

EPsy 3101 Creativity and Intelligence: an Introduction
OPT No Aud, 3 credit(s);Credit will not be granted if credit has been received for: EPSY 5101;
Instructor: Bart,William M
Description: This course is intended to serve students (undergraduate) interested in intelligence and creativity. The course
will feature an examination of theories of intelligence and creativity and perspectives on the assessment and development of intelligence and creativity. Implications for educational practices, psychological research, and the professions and disciplines will also be studied. Attention will be provided to the role of interventions intended to enhance intellectual abilities and creativity and to relevant brain research on creativity and intelligence. The primary readings for the course will be one contemporary paperback text on creativity and one contemporary paperback text on human intelligence. This course will emphasize writing in the evaluation of student performance. Students will work in small groups to complete approximately 3 group discussion short answer essay questions. Students will learn early in the course the essay questions to be used in the course. Each student will complete a critical review of one scholarly article or book chapter, with either the article or the text chapter to be selected by the student, and one final paper. The course will be "Web Enhanced."

**Style:** 100% Web Based. presentations; web enhanced course (URL not yet available)

**Grading:** 27% reports/papers, 20% special projects, 30% quizzes, 20% reflection paper, 3% other evaluation.

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**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;
Instructor: Wang, Jeremy Yi-Ming
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;
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
Instructor: Ziegler, Laura Ann
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
Instructor: Brown, Ethan
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
Instructor: Parker, Nicola Georgine
Description: Student may contact the instructor or department for information.

**EPsy 3301 Introduction to Educational Psychology**
OPT No Aud, 3 credit(s); Credit will not be granted if credit has been received for: EPSY 5114; Meets CLE req of Social Sciences
Instructor: Varma, Keisha
Description: Student may contact the instructor or department for information.

**EPsy 3303 Educational Psychology Undergraduate Research Practicum**
A-F only, 3 credit(s), max credits 6;
Instructor: delMas, Robert Claude
Description: Student may contact the instructor or department for information.

**EPsy 4613 Foundations of Special Education I**
A-F only, 3 credit(s);
Instructor: Pierce, Becca L.
Description: Student may contact the instructor or department for information.

**EPsy 5101 Intelligence and Creativity**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EPSY 3101;
Instructor: Bart, William M
Description: This course is intended to serve students (graduate, undergraduate, and adult special) interested in intelligence and creativity. The course will feature an examination of theories of intelligence and creativity and perspectives
on the assessment and development of intelligence and creativity. Implications for educational practices, psychological research, and the professions and disciplines will also be studied. Attention will be provided to the role of interventions intended to enhance intellectual abilities and creativity and to relevant brain research on creativity and intelligence. The primary readings for the course will be one contemporary paperback text on creativity and one contemporary paperback text on human intelligence. This course will emphasize writing in the evaluation of student performance. Students will work in small groups to complete approximately 7 group discussion short answer essay questions. Students will learn early in the course the essay questions to be used in the course. Each student will complete a critical review of one scholarly article or book chapter, with either the article or the text chapter to be selected by the student, and one final paper. The course will be "Web Enhanced."

Style: 30% Discussion, 20% Small Group Activities, 50% Web Based, presentations; web enhanced course (URL not yet available)
Grading: 25% mid exam, 20% final exam, 42% reports/papers, 10% special projects, 3% other evaluation.
Exam Format: short essay

EPsy 5114 Psychology of Student Learning
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: EPSY 3301;
Instructor: Varma, Keisha
Description: This course has two main goals: (1) to provide a broad, introductory overview of educational psychology and (2) to allow you to explore some topics of interest to you in depth. Educational Psychology has informed a range of practices and concerns within education. In recent decades, the field has also embraced methods of inquiry beyond the traditional paradigms of experimental psychology. This course will be taught using diverse methods. Traditional reading of the text and lecture/discussion will be used, however, this will be done in a student-centered fashion so that both the students and the instructor are engaged in a dialogue and a process of discovery about "truths" in the application of psychology to teaching and learning. As you participate in this course you will be encouraged to reflect on your own thoughts about how people learn, the intervening factors that influence learning, and best practices for supporting teaching and learning. Students will use technology to apply psychological theories, to explore issues in education, and to reflect on new ideas. Our class lectures and discussions will focus on psychological theories of learning and cognition, cognitive and social development across the lifespan, motivation, individual differences, testing, assessment, teaching methodologies, and pragmatic issues in educational settings.
Style: 40% Lecture, 20% Discussion, 15% Small Group Activities, 20% Student Presentation, 5% Guest Speakers.
Exam Format: This course has only a take-home final exam. The final exam will consist of a set of comprehensive essay questions, requiring you to relate and incorporate material from covered during the semester.

EPsy 5119 Mind, Brain, and Education
OPT No Aud, 3 credit(s);
Instructor: Varma, Sashank
Description: Student may contact the instructor or department for information.

EPsy 5151 Cooperative Learning
3 credit(s);
Instructor: Johnson, Roger T
Description: This course trains participants to use cooperative learning in either elementary, secondary, college, or training situations. Class sessions will include lectures, discussions, model lessons, micro-teaching, experiential exercises, and planning for implementation. Topics covered include the theory and research on cooperative learning, the teacher’s role in using cooperative learning, the basic elements that make cooperation work, monitoring groups while they work, intervening to improve the effectiveness of learning groups, processing how well the groups are functioning, assessing the performance and learning of groups and members, and the use of collegial teaching teams to help implement cooperative learning. Developing the competencies needed to use cooperative learning is emphasized.
Style: 20% Lecture, 20% Discussion, 60% Laboratory.
Exam Format: multiple choice, matching, short answer

EPsy 5151 Cooperative Learning
3 credit(s);
Instructor: Johnson, David W
Description: This course trains participants to use cooperative learning in either elementary, secondary, college, or training situations. Class sessions will include lectures, discussions, model lessons, micro-teaching, experiential exercises, and planning for implementation. Topics covered include the theory and research on cooperative learning, the teacher’s role in using cooperative learning, the basic elements that make cooperation work, monitoring groups while they work, intervening to improve the effectiveness of learning groups, processing how well the groups are functioning, assessing the performance and learning of groups and members, and the use of collegial teaching teams to help implement cooperative learning. Developing the competencies needed to use cooperative learning is emphasized.
Style: 20% Lecture, 20% Discussion, 60% Laboratory.
Exam Format: multiple choice, matching, short answer
EPsy 5191 Education of the Gifted and Talented
A-F only, 3 credit(s);
Instructor: Bart, William M
Description: This course will provide an overview of the study of the gifted and talented and their education. Among those topics are cognitive and affective characteristics of gifted and talented students, the identification of gifted and talented, curricular and instructional issues, and parental and social relationships. This course should interest graduate and undergraduate students as well as educators, counselors, and other interested parties who want to learn about the gifted and talented and their education. Students will be asked to prepare a profile of a gifted student and the student's education, to make a class presentation on the profile, to discuss topics in text chapters, and to complete an essay mid-semester exam and an essay final exam. This course will be web enhanced. The Web CT site is to be determined.
Style: 30% Lecture, 40% Discussion. student presentations
Grading: 10% mid exam, 20% final exam, 30% reports/papers, 30% in-class presentation, 10% class participation.
Exam Format: essay

EPsy 5243 Principles and Methods of Evaluation
3 credit(s); Credit will not be granted if credit has been received for: OLPD 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);
Instructor: Rodriguez, Michael C.
Description: Student may contact the instructor or department for information.

EPsy 5246 Evaluation Colloquium: Psychological Foundations
S-N only, 1 credit(s), max credits 8, 8 completions allowed; 5243 or EdPA 5501 Credit will not be granted if credit has been received for: OLPD 5524;
Instructor: Storm PhD, Karen Jacobson
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 statistical software in the course. The instructor will provide students within information on the first day of class about the software that will be used and how to access this software.
Style: 100% Web Based. Class involves a lot of discussion/small-group activities and independent learning activities
Grading: 18% mid exam, 18% final exam, 18% reports/papers, 22% special projects, 21% written homework, 3% reflection paper.
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: Fry, Elizabeth Brondos
Description: Student may contact the instructor or department for information.

EPsy 5262 Intermediate Statistical Methods
3 credit(s);
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 statistical software (SPSS), (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 Fall 2012 section of 5262 will be offered completely online.

**Style:** 100% Web Based.

**Grading:** 19% mid exam, 19% final exam, 19% reports/papers, 22% written homework, 21% problem solving.

**Exam Format:** Mostly short answer questions

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**EPsy 5271 Becoming a Teacher of Statistics**

3 credit(s);

**Instructor:** Everson, Michelle G

**Description:** Students taking EPSY 5271 will: (1) Become knowledgeable about current recommendations for teaching introductory statistics at the college level, (2) Learn about the different types of first courses in statistics (e.g., Advanced Placement High School Statistics, Introductory College statistics, Mathematics statistics, and Statistical Literacy courses) and what the key commonalities and differences are between these courses, (3) Read articles by leaders in the national and international statistics community about goals for student learning, the nature of statistical reasoning and thinking, and recommended methods for teaching, (4) Gain experience using state of the art technological tools including statistical software, web applets, and simulation/re-sampling to help students learn statistics, (5) Learn about appropriate ways to assess student learning via performance assessment, student projects, and other assessment formats, (6) Experience and learn about many activities that help students develop understanding of important statistical ideas, and (7) Complete a project that includes the design of a lesson for a course they plan to teach, incorporating the guidelines, materials and methods learned in this class.

**Style:** 5% Lecture, 40% Discussion, 40% Small Group Activities, 15% Student Presentation.

**Grading:** 60% reports/papers, 40% special projects.

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**EPsy 5400 Special Topics in Counseling Psychology: Child and Adolescent Development and Family Issues**

2 credit(s), max credits 8, 8 completions allowed;

**Instructor:** Ohrtman, Marguerite

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

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**EPsy 5421 Leadership and Administration of Student Affairs**

3 credit(s); Credit will not be granted if credit has been received for: OLPD 5724;

**Instructor:** Nobbe, June Elly

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

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**EPsy 5432 Foundations of Individual/Organizational Career Development**

3 credit(s);

**Instructor:** Quast, Louis Neumann

**Description:** This course is designed for students pursuing a career where they will either informally coach others on their careers, or formally help clients with their career planning and development. It has been designed for students pursuing careers in Human Resources and Industrial Relations; Human Resource Development; Educational Administration; and any management or professional career where an individual will coach employees or individuals on the development of their careers. The class will explore: The Changing Nature of Work and Work Organizations; How to Gather Information About Occupational Preferences and Prospects; Key Models and Theories of Career Development; The Roles of Achievement, Abilities, Aptitudes, and Values in the Career Development Process; Approaches to Coaching Others on Career Issues; The Social and Economic Aspects of Work; Organizational perspectives on career development; Working with individuals in career transition. The class will be experiential, collaborative, and practical in nature. Students will develop skills in assessing their own career interests and those of others, and developing career planning and career coaching abilities. Goals and Objectives Students in this course will: >Explore the changing nature of careers, from an individual perspective. >Explore the changing nature of careers, from an organizational perspective. >Learn and understand multiple Career Development models and theories. >Analyze their own career interests, applying concepts from the course. >Learn and understand several Career Coaching approaches and tools. >Practice the use of these Career Coaching tools in interaction with fellow students. >Understand Outplacement services as a part of career transition and development.

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

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**EPsy 5435 Introduction to School Counseling**

A-F only, 3-6 credit(s), max credits 6;

**Instructor:** Ohrtman, Marguerite

**Description:** Student may contact the instructor or department for information.
**EPsy 5451 College Students Today**

3 credit(s); Credit will not be granted if credit has been received for: OLPD 5704;
Instructor: Gupton, Jarrett Temple
Description: Student may contact the instructor or department for information.

**EPsy 5604 Transition From School to Work and Community Living for Persons With Special Needs**

3 credit(s);
Instructor: Peper, Christine R
Description: This course will emphasize the use and application of effective strategies and models for improving the transition of youth from school to work and community living for students aged 14-21. This will include course content that specifically addresses all phases of student assessment, individualized transition planning, parent, family and student involvement in designing post school options, use of appropriate community-based services (employment, residential living, social and recreational services, etc), and comprehensive interagency approaches for transition.
Style: 40% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.

**EPsy 5614 Assessment and Due Process in Special Education**

A-F only, 4 credit(s);
Instructor: Seifert PhD, Kathy
Description: Student may contact the instructor or department for information.

**EPsy 5616 Classroom Management and Behavior Analytic Problem Solving**

3 credit(s);
Instructor: Simacek, Jessica Jo
Description: Student may contact the instructor or department for information.

**EPsy 5617 Academic and Social Interventions for Students with Mild to Moderate Disabilities**

A-F only, 3 credit(s);
Instructor: Seifert PhD, Kathy
Description: Student may contact the instructor or department for information.

**EPsy 5618 Specialized Interventions for Students With Mild/Moderate Disabilities in Reading & Written Language**

A-F only, 3 credit(s);
Instructor: Pierce, Becca L.
Description: Student may contact the instructor or department for information.

**EPsy 5621 Assessment and Instructional Design for Students with Developmental Disabilities**

A-F only, 3 credit(s);
Instructor: Peper, Christine R
Description: The focus of this course is academic instruction for students with mild to moderate intellectual disabilities. Academic instruction in language arts, math and science will be taught. Access to general education curriculum along with instructional accommodations and assistive technology will be incorporated into lessons on academic instruction. Summative and formative assessments as they relate to the academic areas for students with mild to moderate intellectual disabilities will be discussed. Classes will take the form of lectures, discussion, work in groups and technology-based strategies.
Style: 30% Lecture, 10% Film/Video, 30% Discussion, 20% Small Group Activities, 10% Student Presentation.

**EPsy 5631 Module 1: Introduction to Augmentative and Alternative Communication**

A-F only, 1 credit(s); Credit will not be granted if credit has been received for: EPSY 5632;
Instructor: Hyppa Martin, Jolene K
Description: Student may contact the instructor or department for information.

**EPsy 5634 Module 4: Assistive technology with Deaf/Hard of Hearing Students**
A-F only, 1 credit(s);
Instructor: Paulson, Anna Regas
Description: Student may contact the instructor or department for information.

**EPsy 5646 Reading and Writing Practices with Deaf/Hard of Hearing Children**
A-F only, 2 credit(s);
Instructor: Schultz, Mary Hale
Description: This class focuses mainly on graduate students who plan to be teaching reading and writing to deaf and hard of hearing learners in grades 1-12. This course addresses current issues and best practice strategies and technology used by teachers working with deaf and/or hard of hearing students with limited and emerging language as well as with students who have a developed first language. Students in this class will develop a final project which includes balanced literacy built into a theme for a given 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% Demonstration.
Grading: 48% reports/papers, 20% special projects, 22% quizzes, 10% other evaluation. response to reading and research

**EPsy 5647 Aural and Speech Programming for Persons Who Are Deaf/Hard of Hearing**
3 credit(s);
Instructor: Paulson, Anna Regas
Description: Student may contact the instructor or department for information.

**EPsy 5651 Evident-Based Practices in Deaf Education**
A-F only, 2 credit(s);
Instructor: Paulson, Anna Regas
Description: Student may contact the instructor or department for information.

**EPsy 5657 Interventions for Behavioral Problems in School Settings**
A-F only, 3 credit(s);
Instructor: Bjorkman, Jessica
Description: Student may contact the instructor or department for information.

**EPsy 5681 Education of Preschool Children With Disabilities: Methods and Materials**
A-F only, 3 credit(s);
Instructor: Johnson, LeAnne Denise
Description: Student may contact the instructor or department for information.

**EPsy 5702 Practicum in Autism Spectrum Disorder**
A-F only, 3 credit(s);
Instructor: Reichle, Joe E
Description: Student may contact the instructor or department for information.

**EPsy 5703 Practicum in Applied Behavior Analysis**
A-F only, 3 credit(s);
Instructor: McComas, Jennifer
Description: Student may contact the instructor or department for information.

**EPsy 5751 Student Teaching: Deaf and Hard of Hearing**
1-6 credit(s), max credits 10, 10 completions allowed;
Instructor: Paulson, Anna Regas
Description: Student may contact the instructor or department for information.

**EPsy 5752 Student Teaching: Learning Disabilities**
S-N only, 1-6 credit(s), max credits 10, 10 completions allowed;
Instructor: Seifert PhD, Kathy
Description: Student may contact the instructor or department for information.
EPsy 5754 Student Teaching: Social and Emotional Disabilities
A-F only, 1-6 credit(s), max credits 8, 8 completions allowed;
Instructor: Zeyer, Virginia Kay
Description: Student may contact the instructor or department for information.

EPsy 5755 Student Teaching: Developmental Disabilities, Mild/Moderate
A-F only, 1-6 credit(s), max credits 6;
Instructor: Peper, Christine R
Description: Student may contact the instructor or department for information.

EPsy 5756 Student Teaching: Developmental Disabilities, Moderate/Severe
A-F only, 1-6 credit(s), max credits 6;
Instructor: Peper, Christine R
Description: Student may contact the instructor or department for information.

EPsy 5761 Student Teaching in Early Childhood Special Education Settings for Children Aged Three to Five Years
S-N only, 3 credit(s), max credits 6;
Instructor: Miller, Donna Lynn
Description: Student may contact the instructor or department for information.

EPsy 5762 Student Teaching in Early Childhood Special Education for Children Aged Birth to Three Years
S-N only, 3 credit(s), max credits 6;
Instructor: Miller, Donna Lynn
Description: Student may contact the instructor or department for information.

EPsy 5801 Assessment and Decision Making in School and Community Settings
A-F only, 3 credit(s);
Instructor: Karich, Abbey C
Description: Student may contact the instructor or department for information.

EPsy 5991 Independent Study in Educational Psychology
A-F only, 1-8 credit(s), max credits 20, 20 completions allowed; instr consent
Credit will not be granted if credit has been received for: EPSY 5690;
Instructor: STAFF
Description:

EPsy 8114 Seminar: Cognition and Learning
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Kendeou, Panayiota A.
Description: Student may contact the instructor or department for information.

EPsy 8132 Personality Development and Socialization
3 credit(s);
Instructor: Burke, Caroline Anne
Description: Student may contact the instructor or department for information.

EPsy 8222 Advanced Measurement: Theory and Application
4 credit(s); [PSY 5862 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 8226 Item Response Models: Theory and Applications
3 credit(s);
Instructor: Davison, Mark L
Description: Student may contact the instructor or department for information.

EPsy 8247 Advanced Interviewing and NVIVO
3 credit(s);
Instructor: Lawrenz, Frances P
Description: Student may contact the instructor or department for information.

EPsy 8252 Methods in Data Analysis for Educational Research II
3 credit(s);
Instructor: Zieffler PhD, Andrew S
Description: Student may contact the instructor or department for information.

EPsy 8261 Statistical Methods I: Probability and Inference
3 credit(s);
Instructor: delMas, Robert Claude
Description: This is the first course of the Ph.D. level statistics sequence in Educational Psychology. Students are introduced to basic methods of data description and statistical analysis. The course is applied, meaning the emphasis is on conceptual understanding of the methods used in data analysis rather than on the mathematical bases of the methods. It is assumed that the student has a working knowledge of high school-level algebra. Topics covered: descriptive statistics, normal distribution, sampling distributions, one- and two-sample hypothesis tests, confidence intervals, one-way analysis of variance, a priori and post hoc tests, simple linear regression, contingency table analysis, and testing assumptions for all statistical models.
Style: 60% Lecture, 40% Demonstration.
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);
Instructor: Zieffler PhD, Andrew S
Description: Student may contact the instructor or department for information.

EPsy 8265 Factor Analysis
3 credit(s);
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);
Instructor: Maruyama, Geoffrey M
Description: Student may contact the instructor or department for information.

EPsy 8267 Applied Multivariate Analysis
3 credit(s);
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);
Instructor: Rodriguez, Michael C.
Description: Student may contact the instructor or department for information.

EPsy 8282 Statistical Analysis of Longitudinal Data
3 credit(s);
Instructor: Kohli, Nidhi
EPsy 8290 Special Topics: Seminar in Psychological Foundations: Key Issues in Social Psychology and Education
3 credit(s), max credits 15, 15 completions allowed;
Instructor: Maruyama, Geoffrey M
Description: Student may contact the instructor or department for information.

EPsy 8403 Social/Cultural Contexts: Counseling and Skills
A-F only, 3 credit(s);
Instructor: Perkins, Herbert A
Description: Student may contact the instructor or department for information.

EPsy 8404 Group Counseling: Theory, Applications, and Skills
A-F only, 3 credit(s);
Instructor: Shih PhD, LP, Jerome Stuart
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);
Instructor: Burke, Caroline Anne
Description: Student may contact the instructor or department for information.

EPsy 8413 Personality Assessment of Adolescents and Adults
A-F only, 3 credit(s);
Instructor: Turner, Sherri L
Description: Student may contact the instructor or department for information.

EPsy 8431 Master's Research Seminar: CSPP
A-F only, 3 credit(s), max credits 4, 1 completion allowed;
Instructor: Hanson, Matthew R
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;
Instructor: Ohrtman, Marguerite
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;
Instructor: Burke, Caroline Anne
Description: Student may contact the instructor or department for information.

EPsy 8509 Supervision Practicum: CSPP
1-2 credit(s), max credits 6, 6 completions allowed;
Instructor: Burke, Caroline Anne
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;
Instructor: Turner, Sherri L
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;
Instructor: Turner, Sherri L
Description: Student may contact the instructor or department for information.

EPsy 8694 Research in Special Education
3 credit(s);
Instructor: McConnell PhD, Scott Rushton
Description: Student may contact the instructor or department for information.

**EPsy 8702 Doctoral Core Seminar: Special Education II**
A-F only, 3 credit(s), max credits 6;
Instructor: McMaster, Kristen L.
Description: Student may contact the instructor or department for information.

**EPsy 8800 Special Topics in School Psychology: Early Childhood Issues: Engaging Community**
1 credit(s), max credits 9, 9 completions allowed;
Instructor: Susman-Stillman, Amy R
Description: Student may contact the instructor or department for information.

**EPsy 8800 Special Topics in School Psychology: Seminar in Research in School Psychology**
1 credit(s), max credits 9, 9 completions allowed;
Instructor: Sullivan, Amanda Louise
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);
Instructor: Hansen-Burke, 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;
Instructor: Hansen-Burke, Annie
Description: Student may contact the instructor or department for information.

**EPsy 8815 Individual and System Socio-Emotional Interventions**
A-F only, 3 credit(s);
Instructor: Hansen-Burke, Annie
Description: Student may contact the instructor or department for information.

**EPsy 8817 School Psychological Consultation**
A-F only, 3 credit(s);
Instructor: Buerkle, Karla
Description: Student may contact the instructor or department for information.

**EPsy 8818 Intervention Practicum in School Psychology**
A-F only, 1 credit(s), max credits 2;
Instructor: Hansen-Burke, Annie
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);
Instructor: Sullivan, Amanda Louise
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;
Instructor: Buerkle, Karla
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;
Instructor: Buerkle, Karla
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;
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;
Instructor: Hansen-Burke, Annie
Description: Student may contact the instructor or department for information.

EPsy 8849 Assessment in Early Childhood
A-F only, 3 credit(s);
Instructor: Buerkle, Karla
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);
Instructor: Varma, Keisha
Description: Student may contact the instructor or department for information.

Electrical and Computer Engineering

EE 1 Refresher Course for Electrical Engineers
A-F only, 0 credit(s);
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);
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);
Instructor: Imbertson, Paul Jay
Description: Student may contact the instructor or department for information.

EE 1301 Introduction to Computing Systems
4 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

EE 2001 Introduction to Circuits and Electronics
3 credit(s);
Instructor: Cho, Jeong-Hyun
Description: Student may contact the instructor or department for information.
EE 2002 Introductory Circuits and Electronics Laboratory
1 credit(s);
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

EE 2011 Linear Systems, Circuits, and Electronics
3 credit(s);
Instructor: Kaleem, Faisal
Description: Student may contact the instructor or department for information.

EE 2301 Introduction to Digital System Design
4 credit(s);
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 2301 Introduction to Digital System Design
4 credit(s);
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 2301 Introduction to Digital System Design
4 credit(s);
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 2301 Introduction to Digital System Design
4 credit(s);
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

EE 2361 Introduction to Microcontrollers
4 credit(s);
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);
Instructor: Mahmoodi PhD, Abolghassem B
Description: Student may contact the instructor or department for information.

EE 3006 Fundamentals of Electrical Engineering Laboratory
1 credit(s);
Instructor: Mahmoodi PhD, Abolghassem B
Description: Student may contact the instructor or department for information.

EE 3015 Signals and Systems
3 credit(s);
Instructor: Haupt, Jarvis David
Description: Student may contact the instructor or department for information.

EE 3025 Statistical Methods in Electrical and Computer Engineering
3 credit(s);
Instructor: Sidiropoulos, Nikolaos
for analysis and design in random environment. Text: R. D. Yates and D. J. Goodman, Probability and Stochastic Processes, 1999, John Wiley, New York. This course provides a basic introduction to statistical models and related analysis techniques, with applications in communications, control, and networking. The primary prerequisite is communications, control, and networking. The primary prerequisite is EE3011 (under the quarter system) or EE3015 (under the semester system) - covering concepts and tools of signal analysis and spectral (Fourier) representation - generalized herein to the case of non-deterministic (non-predictable) signals, of interest in most practical situations where one has to deal with uncertainty. MATLAB is a widely used computer tool for simulating statistical phenomena and signals of interest to electrical engineers, and will be used extensively in this course. Please note that MATLAB was introduced in EE3015 (or EE3011), so a working knowledge of it is assumed as prerequisite for this class. Recitations will be administered in a cooperative learning format, with students working in small groups to solve course-related problems using MATLAB, with the recitation instructor serving in a supervisory mode.

Style: 75% Lecture. Recitations, groups of 3-4 people working as a team to solve problems using
Grading: 40% mid exam, 45% final exam, 15% problem solving.
Exam Format: Problem-solving

EE 3041 Industrial Assignment I
A-F only, 2 credit(s);
Instructor: Kelso,Frank M
Description: Student may contact the instructor or department for information.

EE 3101 Circuits and Electronics Laboratory I
2 credit(s);
Instructor: Kaleem,Faisal
Description: Student may contact the instructor or department for information.

EE 3102 Circuits and Electronics Laboratory II
2 credit(s);
Instructor: Robbins,William P
Description: Experiments in circuits and electronics; team design project.

EE 3115 Analog Electronics
3 credit(s);
Instructor: Robbins,William P
Description: Student may contact the instructor or department for information.

EE 3115 Analog Electronics
3 credit(s);
Instructor: Robbins,William P
Description: Student may contact the instructor or department for information.

EE 3161 Semiconductor Devices
3 credit(s);
Instructor: Higman,Ted King
Description: Student may contact the instructor or department for information.

EE 3601 Transmission Lines, Fields, and Waves
3 credit(s);
Instructor: Li,Mo
Description: Student may contact the instructor or department for information.

EE 3990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 4;
Instructor: Kinney,Larry L
Description: Student may contact the instructor or department for information.

EE 4043W Industrial Assignment II
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Kelso,Frank M
Description: Student may contact the instructor or department for information.
EE 4044 Industrial Assignment III
A-F only, 2 credit(s);
Instructor: Kelso, Frank M  
Description: Student may contact the instructor or department for information.

EE 4111 Advanced Analog Electronics Design
4 credit(s);
Instructor: Higman, Ted King  
Description: Student may contact the instructor or department for information.

EE 4161W Energy Conversion and Storage
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Imbertson, Paul Jay  
Description: Student may contact the instructor or department for information.

EE 4163 Energy Conversion and Storage Laboratory
1 credit(s);
Instructor: Imbertson, Paul Jay  
Description: Student may contact the instructor or department for information.

EE 4233 State Space Control System Design
3 credit(s);
Instructor: Georgiou, Tryphon T  
Description:
Style: 100% Lecture.
Grading: 50% mid exam, 40% final exam, 10% problem solving.
Exam Format: problems: to work out a solution

EE 4237 State Space Control Laboratory
1 credit(s);
Instructor: Georgiou, Tryphon T  
Description:
Style: 100% Laboratory.
Grading: 100% reports/papers.

EE 4341 Embedded System Design
4 credit(s);
Instructor: Posbergh, Thomas Alfred  
Description: Student may contact the instructor or department for information.

EE 4363 Computer Architecture and Machine Organization
4 credit(s); 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: Sartori, John M  
Description: Student may contact the instructor or department for information.

EE 4607 Wireless Hardware System Design
3 credit(s);
Instructor: Gopinath, Anand  
Description: Student may contact the instructor or department for information.

EE 4701 Electric Drives
3 credit(s);
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);
Instructor: Imbertson, Paul Jay  
Description: Student may contact the instructor or department for information.

EE 4951W Senior Design Project  
4 credit(s); Meets CLE req of Writing Intensive  
Instructor: Stadler, Bethanie J. Hills  
Description: Student may contact the instructor or department for information.

EE 4970 Directed Study  
1-3 credit(s), max credits 12, 4 completions allowed;  
Instructor: STAFF  
Description: Studies of approved projects, either theoretical or experimental.

EE 4982V Senior Honors Project II  
2 credit(s); Meets CLE req of Writing Intensive  
Instructor: Lilja, David J  
Description: Student may contact the instructor or department for information.

EE 5164 Semiconductor Properties and Devices II  
3 credit(s);  
Instructor: Koester, Steven J  
Description: Student may contact the instructor or department for information.

EE 5235 Robust Control System Design  
3 credit(s);  
Instructor: Seiler Jr, Peter J  
Description: Student may contact the instructor or department for information.

EE 5302 VLSI Design Automation II  
3 credit(s);  
Instructor: Bazargan, Kia  
Description: Student may contact the instructor or department for information.

EE 5324 VLSI Design II  
3 credit(s);  
Instructor: Kim, Chris H.  
Description: Student may contact the instructor or department for information.

EE 5327 VLSI Design Laboratory  
3 credit(s);  
Instructor: Sobelman, Gerald Edward  
Description: Student may contact the instructor or department for information.

EE 5329 VLSI Digital Signal Processing Systems  
3 credit(s);  
Instructor: Parhi, Keshab K.  
Description: This course brings together the distinct fields of computer architecture and digital signal processing system design. Familiarity with a programming language such as MATLAB or C is assumed. Digital signal processing is an enabling technology for many applications such as video, speech, communications and multimedia. The focus of this class will be on design methodologies and tools for design of dedicated and programmable VLSI systems for signal and image processing applications. The design methodologies will be used for exploring area-power-speed tradeoffs for different DSP applications. Minimization of area is another constraint in implementations using VLSI chips. Power consumption reduction is crucial in design of modern systems for portable as well as non-portable applications. The purpose of this class is to learn design methodologies to design a family of architectures for a given algorithm and select appropriate architectures based on area-speed-power constraints of the specified application.  
Style: 100% Lecture.  
Grading: 25% mid exam, 40% final exam, 10% reports/papers, 25% problem solving.  
Exam Format: Essay, problem solving

EE 5393 Circuits, Computation, and Biology
EE 5505 Wireless Communication
3 credit(s);
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

EE 5551 Multiscale and Multirate Signal Processing
3 credit(s);
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 5601 Introduction to RF/Microwave Engineering
3 credit(s);
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
A-F only, 2 credit(s);
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 5621 Physical Optics
3 credit(s);
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);
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);
Instructor: Wang, Jianping
Description: Student may contact the instructor or department for information.
EE 5705 Electric Drives in Sustainable Energy Systems
3 credit(s);
Instructor: Mohan,Ned
Description: Student may contact the instructor or department for information.

EE 5721 Power Generation Operation and Control
3 credit(s);
Instructor: Wollenberg,Bruce F
Description: Student may contact the instructor or department for information.

EE 5940 Special Topics in Electrical Engineering I
1 credit(s), max credits 12, 3 completions allowed;
Instructor: Mohan,Ned
Description: Student may contact the instructor or department for information.

EE 5940 Special Topics in Electrical Engineering I
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Mysore,Pratap
Description: Student may contact the instructor or department for information.

EE 5940 Special Topics in Electrical Engineering I
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Mysore,Pratap
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: 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;
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;
Instructor: Rennolet,Charles Leon
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Gopinath,Anand
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Sapiro,Guillermo R
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Sapatnekar,Sachin Suresh
EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Moon, Jaekyun
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Wollenberg, Bruce F
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 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: 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: Harjani, Ramesh
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
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: 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: Georgiou, Tryphon T
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 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: 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: Kaveh, Mostafa
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Lilja, David J
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 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: 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: 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: 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;
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;
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;
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;
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;
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;
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Ebibini, Emad S
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Victoria, Randall H
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
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;
Instructor: Sartori, John M
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: 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;
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;
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;
Instructor: Wang, Jianping
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
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;
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;
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;
Instructor: Jindal, Nihar
Description: Student may contact the instructor or department for information.
EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
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;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 5990 Curricular Practical Training
S-N only, 1-2 credit(s), max credits 6, 3 completions allowed;
Instructor: Riedel, Marc
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: 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;
Instructor: salapaka, murti v
Description: Student may contact the instructor or department for information.

EE 8161 Physics of Semiconductors
3 credit(s);
Instructor: Ruden, P Paul
Description: Student may contact the instructor or department for information.

EE 8215 Nonlinear Systems
3 credit(s);
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 8231 Optimization Theory
3 credit(s);
Instructor: Luo, Zhi-Quan
Description: Student may contact the instructor or department for information.

EE 8337 Analog Circuits for Wire/Wireless Communications
A-F only, 3 credit(s);
Instructor: Harjani, Ramesh
Description: Student may contact the instructor or department for information.

EE 8367 Parallel Computer Organization
3 credit(s); 5364 or CSCI 5204 Credit will not be granted if credit has been received for: CSCI 8205;
Instructor: Yew, Pen-Chung
Description: Student may contact the instructor or department for information.

EE 8581 Detection and Estimation Theory
3 credit(s);
Instructor: Giannakis, Georgios B
Description: Student may contact the instructor or department for information.

EE 8660 Seminar: Magnetics
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Wang, Jianping
Description: Student may contact the instructor or department for information.
EE 8920 Teaching Experience in Electrical and Computer Engineering
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
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;
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;
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;
Instructor: Mounes-Toussi, Farnaz
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Rennolet, Charles Leon
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Ottesen, Hal
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
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;
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;
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;
Instructor: Moon, Jaekyun
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
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;
Instructor: Posbergh, Thomas Alfred
Description: Student may contact the instructor or department for information.
EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
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;
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;
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;
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;
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;
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;
Instructor: Higman,Ted King
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Kaveh,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;
Instructor: Lilja,David J
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
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;
Instructor: Talghader,Joseph John
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Cherkassky,Vladimir S
Description: Student may contact the instructor or department for information.
EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Campbell, Stephen A
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Hubel, Allison
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Kinney, Larry L
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Kieffer, John C
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Robbins, William P
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Sobelman, Gerald Edward
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EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Leger, James Robert
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EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Victora, Randall 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;
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;
Instructor: Sartori, John M
Description: Student may contact the instructor or department for information.
EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
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;
Instructor: Roychowdhury, Jaijeet
Description: Student may contact the instructor or department for information.

EE 8940 Special Investigations
1-3 credit(s), max credits 3, 1 completion allowed;
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;
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;
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;
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;
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;
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;
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;
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;
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;
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;
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;
Instructor: Karpuzcu,Rahmet Ulya
Description: Student may contact the instructor or department for information.

EE 8950 Advanced Topics in Electrical and Computer Engineering
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Karpuzcu,Rahmet Ulya
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Imbertson,Paul Jay
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Ernie,Douglas
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Mounes-Toussi,Farnaz
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Rennolet,Charles Leon
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Ottesen,Hal
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Gopinath,Anand
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Tewfik,Ahmed Hossam
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Sapiro,Guillermo R
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Sapatnekar,Sachin Suresh
Description: Student may contact the instructor or department for information.
EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Moon, Jaekyun
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Wollenberg, Bruce F
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Posbergh, Thomas Alfred
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Parhi, Keshab K.
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Harjani, Ramesh
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Cohen, Philip I
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Ruden, P Paul
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Georgiou, Tryphon T
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Stadler, Bethanie J. Hills
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Higman, Ted King
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Kaveh, Mostafa
  Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
  3 credit(s);
  Instructor: Lilja, David J
  Description: Student may contact the instructor or department for information.
EE 8965 Plan C Project I
3 credit(s);
Instructor: Mohan, Ned
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Talghader, Joseph John
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Cherkassky, Vladimir S
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Campbell, Stephen A
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Hubel, Allison
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Kinney, Larry L
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Kieffer, John C
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Robbins, William P
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Sobelman, Gerald Edward
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Leger, James Robert
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Franklin, Rhonda R.
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Ebbini, Emad S
Description: Student may contact the instructor or department for information.
EE 8965 Plan C Project I
3 credit(s);
Instructor: Victoria, Randall H
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Giannakis, Georgios B
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Bazargan, Kia
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Roychowdhury, Jaijeet
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Jacobs, Heinrich Otto Heiko
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Roumeliotis, Stergios
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Wang, Jianping
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Amin, Massoud
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Luo, Zhi-Quan
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: He, Bin
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Jindal, Nihar
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Kim, Chris H.
Description: Student may contact the instructor or department for information.
EE 8965 Plan C Project I
3 credit(s);
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Oh, Sang-Hyun
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: salapaka, murti v
Description: Student may contact the instructor or department for information.

EE 8965 Plan C Project I
3 credit(s);
Instructor: Dhople, Sairaj
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;
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;
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;
Instructor: Moues-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;
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;
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;
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;
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;
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;
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;
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;
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;
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;
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;
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;
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;
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;
Instructor: Stadler,Bethanie J. Hills
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
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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;
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;
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;
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;
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;
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;
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;
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;
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;
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;
Instructor: Sobelman, Gerald Edward
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EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Leger, James Robert
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EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
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;
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;
Instructor: Victora, Randall H
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Giannakis, Georgios B
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Bazargan, Kia
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
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Instructor: Roychowdhury, Jaijeet
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Instructor: Roumeliotis, Stergios
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EE 8967 Plan C Project II
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Instructor: Wang, Jianping
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EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Amin, Massoud
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EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
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;
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;
Instructor: Jindal, Nihar
Description: Student may contact the instructor or department for information.
EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Kim, Chris H.
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Riedel, Marc
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Oh, Sang-Hyun
Description: Student may contact the instructor or department for information.

EE 8967 Plan C Project II
1-3 credit(s), max credits 3, 1 completion allowed;
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: Ruden, P Paul
Description: Student may contact the instructor or department for information.

Endodontics 15-209 MoosT

Endo 5306 Advanced Clinical Endodontics
A-F only, 1-6 credit(s), max credits 6;
Instructor: McClanahan, Scott B
Description: Student may contact the instructor or department for information.

Endo 5309 Advanced Clinical Endodontics
A-F only, 1-6 credit(s), max credits 6;
Instructor: McClanahan, Scott B
Description: Student may contact the instructor or department for information.

Endo 5313 Advanced Endodontic Emergency
S-N only, 1 credit(s);
Instructor: McClanahan, Scott B
Description: Student may contact the instructor or department for information.

Endo 5316 Advanced Endodontic Emergency
S-N only, 1 credit(s);
Instructor: McClanahan, Scott B
Description: Student may contact the instructor or department for information.

Endo 5330 Clinical Seminar II
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
Instructor: McClanahan, Scott B
Description: Student may contact the instructor or department for information.

Endo 5332 Clinical Seminar IV
A-F only, 1 credit(s);
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 8002 Research in Endodontics**
- 1-2 credit(s), max credits 2, 1 completion allowed;
- Instructor: McClanahan, Scott B
- 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;
- Instructor: McClanahan, Scott B
- Description: Student may contact the instructor or department for information.

**Endo 8311 Literature Review**
- A-F only, 2 credit(s);
- Instructor: McClanahan, Scott B
- Description: Student may contact the instructor or department for information.

**Endo 8313 Literature Review**
- A-F only, 2 credit(s);
- Instructor: McClanahan, Scott B
- Description: Student may contact the instructor or department for information.

**Endo 8321 Advanced Endodontic Lecture**
- A-F only, 1 credit(s);
- Instructor: Bowles, Walter Ray
- Description: Student may contact the instructor or department for information.

**Endo 8323 Advanced Endodontic Lecture**
- A-F only, 1 credit(s);
- Instructor: Bowles, Walter Ray
- Description: Student may contact the instructor or department for information.

**English as a Second Language 160 McNamara Center**

**ESL 10 Beginning Grammar**
- S-N only, 0 credit(s), 4 completions allowed;
- Instructor: STAFF
- Description: This course helps students develop English grammar skills by focusing on the meaning, form, and use of basic grammar structures. This course requires some prior English and is not for true beginners.
- Exam Format: Variety of formats including, multiple choice & short answer essay.

**ESL 20 Beginning Reading and Composition**
- S-N only, 0 credit(s), 4 completions allowed;
- Instructor: STAFF
- Description: This course helps students develop skills and strategies for reading and writing in English. Students read a variety of short and simplified texts and learn the fundamentals of writing at the sentence and basic paragraph level. Vocabulary development is also a focus. This course is intended for students with some prior English and is not for true beginners.

**ESL 30 Beginning Oral Skills**
- S-N only, 0 credit(s), 4 completions allowed;
- Instructor: STAFF
- Description: This course is designed for beginning level non-native speakers of English who have had some prior English
The goal of this course is to help students develop skills and strategies for speaking and comprehending spoken English in both general and academic contexts. Students listen to a variety of short simplified texts and develop their spoken fluency and accuracy in conversations and discussions.

ESL 110 High-Beginning Grammar
S-N only, 0 credit(s), 4 completions allowed;
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.

ESL 120 High-Beginning Reading and Composition
S-N only, 0 credit(s), 4 completions allowed;
Instructor: STAFF
Description: In this high-beginning intensive reading and writing course for non-native speakers of English, students will improve reading skills for identifying the topic, main idea and details of adapted texts. Students will also choose books 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 ideas and organization as well as accurate grammar and vocabulary.
Exam Format: Short answer

ESL 130 High Beginning Oral Skills
S-N only, 0 credit(s), 3 completions allowed;
Instructor: STAFF
Description: This course is designed for non-native speakers of English with two years of prior English study. The goal of this course is to help students develop their oral communication skills for general and academic purposes. Students listen to short adapted texts and practice identifying main ideas and details, making inferences, taking notes, and synthesizing what they have heard. Students will engage in short conversations, class discussions and presentations. They will improve spoken fluency as well as accuracy in pronunciation, spoken grammar and vocabulary use.

ESL 210 Intermediate Grammar
S-N only, 0 credit(s), 4 completions allowed;
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 220 Intermediate Reading and Composition
S-N only, 0 credit(s), 4 completions allowed;
Instructor: STAFF
Description: The purpose of this intermediate course is to help non-native speakers of English improve reading and writing skills in English. In class, students will read and discuss a variety of texts to practice reading strategies, 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 230 Intermediate Oral Skills
S-N only, 0 credit(s), 4 completions allowed;
Instructor: STAFF
Description: This course helps intermediate non-native speakers of English improve listening and speaking skills for general and academic purposes. Students listen to both adapted and authentic texts to develop academic listening and speaking skills. Students identify main ideas and details, make inferences, take notes, and synthesize what they have heard. Students will improve spoken fluency and accuracy in formal and informal academic speaking contexts, including conversations, small group and class discussion, and presentations. This course will help students improve pronunciation, spoken grammar, and vocabulary use.
Grading: 25% special projects, 15% quizzes, 25% in-class presentation, 25% class participation, 10% laboratory evaluation.
Exam Format: Short answers
ESL 310 Advanced Grammar  
S-N only, 0 credit(s), 4 completions allowed;  
Instructor: STAFF  
**Description:** This course helps 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 320 Advanced Reading and Composition  
S-N only, 0 credit(s), 4 completions allowed;  
Instructor: STAFF  
**Description:** ESL 320 is an advanced 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 using effective patterns of organization.

ESL 330 Advanced Oral Skills  
S-N only, 0 credit(s), 4 completions allowed;  
Instructor: STAFF  
**Description:** This course helps advanced non-native speakers of English develop listening and speaking skills for participating in American academic lectures, discussions, presentations, and informal interaction. Students will listen to authentic texts and academic lectures, develop note-taking skills, synthesize and respond to content. This course will help students develop both their fluency and accuracy through work on pronunciation, spoken grammar, and academic vocabulary.

ESL 410 English Grammar for Academic Purposes  
S-N only, 0 credit(s), 4 completions allowed;  
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 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 420 High Advanced Reading/Composition  
S-N only, 0 credit(s), 4 completions allowed;  
Instructor: STAFF  
**Description:** ESL 420 is a high-advanced 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. By planning and developing three multi-draft papers, students begin to practice using persuasive and expository modes of writing to accomplish specific purposes as writers. Students will also develop informal writing skills.  
**Exam Format:** Variety

ESL 430 High Advanced Oral Skills  
S-N only, 0 credit(s), 4 completions allowed;  
Instructor: STAFF  
**Description:** This course helps high-advanced non-native speakers of English further improve skills for participating in American academic lectures, discussions, presentations, and informal interaction. Students will listen to authentic texts with a focus on academic lectures, develop note-taking skills, synthesize and respond to content. This course will help students further develop both their fluency and accuracy through work on pronunciation, spoken grammar, and academic vocabulary.

ESL 901 American Culture  
S-N only, 0 credit(s), 10 completions allowed;  
Instructor: STAFF  
**Description:** This course is open to full-time or part-time students in the Intensive English Program (IEP) at level 3 or
American Culture is an integrated-skills class with an emphasis on reading and discussion, with some formal writing and presentation. The course focuses on key aspects of American culture such as ethnic diversity, family life, and popular culture, and how they shape core values. Students will explore the idea of culture and think critically about the different facets of culture while also further developing their English language skills.

**ESL 902 Academic Skills for the American University**  
S-N only, 0 credit(s), 10 completions allowed;  
Instructor: STAFF  
Description: This course is open to students enrolled in the Intensive English Program (IEP) at level 3 and above. This course will help non-native English speaking students polish their English skills in order to be successful in university level classes. Topics will cover the English language needed to interact within university settings. Some topics of focus are academic life, student/instructor roles, communicating by email, classroom interactions, and discussion/panel presentation skills.

**ESL 903 Business English**  
S-N only, 0 credit(s), 10 completions allowed;  
Instructor: STAFF  
Description: This course is designed for non-native speakers of English who have high-intermediate to advanced English skills and want to polish these skills for further career advancement. The course covers topics such as writing for business communication, speaking in meetings, large group presentations, and telephone communication. One of the goals of this course is to equip participants with techniques to aid in continual improvement of English skills beyond the class.

**ESL 904 TOEFL Preparation**  
S-N only, 0 credit(s);  
Instructor: STAFF  
Description: This course is designed for non-native speakers of English who have high-intermediate to advanced English skills and who want to learn important test-taking skills in preparation for taking the internet-based Test of English as a Foreign Language (TOEFL iBT). This course offers intensive review of the four skills assessed on this exam: reading, written expression, listening, and speaking. In addition, students will review the grammatical structures of English, explore common question types, and advance test-taking strategies. While this course focuses on the TOEFL iBT, the test-taking skills and language review covered in this course would also be useful for students preparing to take the paper-based TOEFL, IELTS, or MELAB proficiency assessments.

**ESL 905 Topics in ESL**  
S-N only, 0 credit(s);  
Instructor: Bonnac, Alyssa Ruesch  
Description: This course is designed for non-native speakers of English who have high-intermediate to advanced English skills and are preparing for admission to science and engineering programs. Students will gain more practice acquiring vocabulary related to science and engineering, interpreting authentic texts (both text and aural-based), interacting and participating in lab-type discussions, and writing scientific reports. One of the goals of this course is to help students become more familiar with the academic norms of science and engineering classes through observation and discussion. This course is open to students in the IEP, levels 4 or 4+. Course Objectives: By the end of this course, students will be able to: 1) Describe and apply knowledge of academic norms in science and engineering courses at American universities. 2) Apply language skills and strategies to comprehend authentic texts including graphs and data sets. 3) Identify and use appropriate rhetorical forms for writing science and engineering texts and giving oral presentations. 4) Apply and develop strategies for vocabulary development 5) Apply language, communication, and academic skills to effectively participate in science and engineering academic settings.

**ESL 921 Academic Writing**  
S-N only, 0 credit(s), 3 completions allowed;  
Instructor: STAFF  
Description: This course meets with 3302. Designed for students who are non-native speakers of English, this course focuses on foundational writing skills and emphasizes the writing process - developing ideas, drafting, revising, and editing. Guided textual analyses of readings are used to develop writing skills through the close examination of strategies employed by accomplished writers. Through ongoing, active participation, students learn to (1) match writing to audience and purpose, (2) produce different genres of academic writing, (3) incorporate source material into writing, and (4) critique their writing and that of others. Gains in basic writing skills culminate in students’ ability to transfer acquired skills into discipline-specific writing. Through development of personal voice and an appreciation for the importance of the credibility of the writer, students also learn to recognize and avoid plagiarism. Problems with sentence structure, lexical grammar, and diction are addressed individually.

**ESL 931 Academic Speaking**
ESL 941 Research Writing for the American University
S-N only, 0 credit(s);
Instructor: STAFF
Description: This course meets with ESL 3402. This course enables students to develop the methods of citation, conventions of style and organization, and critical reading and thinking skills necessary for writing college-level research papers. Students select topics derived from a contemporary academic theme provided by the instructor and, applying a process approach, produce a research paper. Students will learn to use the library effectively and will learn about writing resources on campus such as Peer Research Consultants and Student Writing Support. Problems with structure and vocabulary usage are addressed individually.
Grading: 60% reports/papers, 20% written homework, 10% journal, 10% in-class presentation.

ESL 951 Pronunciation
S-N only, 0 credit(s);
Instructor: STAFF
Description: This course meets with 3551. This course is designed for advanced non-native English speaking students who want to polish their pronunciation skills in English. 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 3001 Integrated Skills for Academic English
2 credit(s), max credits 4;
Instructor: STAFF
Description: This course will help non-native English speaking students in degree programs polish their English skills in order to be successful in university level classes. Topics will cover the English language needed to interact within university setting, academic life, student/instructor roles, communicating by email, classroom interactions, discussion/panel presentation skills.

ESL 3101 Advanced English Grammar
4 credit(s), max credits 8;
Instructor: STAFF
Description: This course for academic credit is designed for students who are concurrently 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;
Instructor: STAFF
Description: This course for academic credit 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 3102 English Grammar for Academic Purposes
4 credit(s), max credits 8;
Instructor: Nelson, Eric Stuart
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit the Class URL for ODL policies, including fee and financial aid information. This course will help you increase your accuracy and range in English grammar. Topics that are especially relevant to academic writing, such as conciseness and smooth connections between sentences, are emphasized. Activities and regular assignments will improve your ability to analyze grammar, including your own mistakes, and to use grammar more effectively. Expect two hours preparation time for each hour of class.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams

ESL 3201 Advanced English Reading and Composition
5 credit(s), max credits 10;
Instructor: STAFF
Description: This course for academic credit is designed for students who are concurrently enrolled in degree programs at the University of Minnesota to work intensively on reading and writing skills. 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;
Instructor: STAFF
Description: This course for academic credit is designed for students who are concurrently enrolled in degree programs at the University of Minnesota. This course 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 plan and develop three multi-draft papers to practice applying persuasive and expository modes of writing to accomplish specific purposes as writers. Students will also develop informal writing skills.

ESL 3302 Writing for Academic Purposes
4 credit(s), max credits 8;
Instructor: STAFF
Description: Designed for students who are non-native speakers of English and are concurrently enrolled in degree programs at the University of Minnesota, this course focuses on foundational writing skills and emphasizes the writing process - developing ideas, drafting, revising, and editing. Guided textual analyses of readings are used to develop writing skills through the close examination of strategies employed by accomplished writers. Through ongoing, active participation, students learn to (1) match writing to audience and purpose, (2) produce different genres of academic writing, (3) incorporate source material into writing, and (4) critique their writing and that of others. Gains in basic writing skills culminate in students? ability to transfer acquired skills into discipline-specific writing. Through development of personal voice and an appreciation for the importance of the credibility of the writer, students also learn to recognize and avoid plagiarism. Problems with sentence structure, lexical grammar, and diction are addressed individually.

ESL 3402 Research Writing for the American University
4 credit(s), max credits 8;
Instructor: STAFF
Description: This course for academic credit is designed for non-native speakers of English who are concurrently enrolled in degree programs at the University of Minnesota. This course enables students to develop the methods of citation, conventions of style and organization, and critical reading and thinking skills necessary for writing college-level research papers. Students select topics derived from a contemporary academic theme provided by the instructor and, applying a process approach, produce a research paper. Students will learn to use the library effectively and will learn about writing resources on campus such as Peer Research Consultants and Student Writing Support. Problems with structure and vocabulary usage are addressed individually.
Grading: 60% reports/papers, 20% written homework, 10% journal, 10% in-class presentation.

ESL 3502 Academic Listening and Speaking
5 credit(s), max credits 10;
Instructor: STAFF
**Description:** This course for academic credit is designed for students already enrolled in degree programs or other coursework at the University of Minnesota to further improve skills for participating in American academic lectures, discussions, presentations, and informal interaction. Students will listen to authentic texts, including academic lectures, develop note-taking skills, synthesize and respond to content. This course will help students further develop both their fluency and accuracy through work on pronunciation, spoken grammar, and academic vocabulary.

**ESL 3551 English Pronunciation**  
4 credit(s), max credits 8;  
**Instructor:** STAFF  
**Description:** This 4 credit course is designed for advanced non-native English speaking students who want to polish their pronunciation skills in English. In order to improve your ability to understand and pronounce English, a variety of areas of pronunciation will be covered while paying special attention to whatever is most difficult for you. Students will also be equipped with techniques to practice pronunciation improvement on their own. Topics covered include English sounds (individually and in combination with other sounds), word stress, sentence stress, rhythm, intonation, linking, understanding fast speech, pronunciation and spelling connections. Open to graduate and undergraduate students, visiting scholars, and members of the community with advanced English skills or above. Check with the Minnesota English Language Program for more information 612-624-1503.

**ESL 3602 Speaking for Academic Purposes**  
4 credit(s), max credits 8;  
**Instructor:** STAFF  
**Description:** The goal of this course is to help non-native speakers of English who are already at the advanced level develop the skills needed to participate in American academic interactions at the university level of various types: presentations, group presentations, seminar-style discussions, and informal exchanges. In this class, students learn to present themselves professionally and socially in academic settings with accuracy, variety, and flexibility. They will learn to organize and outline academic presentations, present information clearly and effectively, explain concepts and processes from their academic field, involve audience members and respond to questions, and monitor and improve their spoken fluency, grammar, and pronunciation.

**English: Literature**  
207 Lind Hall

**EngL 1001W Introduction to Literature: Poetry, Drama, Narrative**  
4 credit(s); credit will not be granted if credit already received for: ENGL 1001,1002Credit will not be granted if credit has been received for: ENGL 1001V; Meets CLE req of Literature; meets CLE req of Writing Intensive  
**Instructor:** Roth-Reinhardt, Anne E  
**Description:** Student may contact the instructor or department for information.

**EngL 1001W Introduction to Literature: Poetry, Drama, Narrative**  
4 credit(s); credit will not be granted if credit already received for: ENGL 1001,1002Credit will not be granted if credit has been received for: ENGL 1001V; Meets CLE req of Literature; meets CLE req of Writing Intensive  
**Instructor:** Kang, Jennifer Somie  
**Description:** This course introduces students to the major literary genres of narrative fiction, poetry, and drama. While the selection of literature will cover diverse time periods and places, these readings will be organized around an issue, which will allow students to discover relationships among works and compare the various ways in which literature engages with the world. Therefore, the course invites students to do more than simply experience and appreciate literature, although this is also significant to our course. With the guidance of an interesting array of short stories, a novel (or two), poems, and a play, this course ultimately seeks to help students develop critical thinking, reading, and writing.

**EngL 1172 The Story of King Arthur**  
A-F only, 3 credit(s); Meets CLE req of Literature  
**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 (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, Rosemary Sutcliff's Sword at Sunset) 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
EngL 1181W Introduction to Shakespeare
4 credit(s); credit will not be granted if credit already received for: ENGL 1181, 1182
Credit will not be granted if credit has been received for: ENGL 1181V
Meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Tandy-Treiber, Ann Marie
Description: William Shakespeare is still one of the most widely read authors in the English language, and one of the most frequently performed playwrights; additionally, his works have been translated into nearly every language around the globe. Whether or not we are comfortable with his place atop the canon of English literature, we cannot ignore the scope and depth of his influence on Western art and culture. At a time when Europe was undergoing massive, fundamental changes, from the level of the nation down to the level of individual experience, Shakespeare wrote more prolifically and more widely than almost any of his peers. Simply put, no other single author can tell us so much about life in Early Modern England. Nor is his vision limited to that time and place; if his worldwide appeal is in part owing to England’s imperial dominance of the last few centuries, it is also (it has been argued) because his plays and poems ‘seem’ to express ‘truths’ about the human condition that rise above nation and period. Texts: to be determined.

EngL 1201W Contemporary American Literature
4 credit(s); credit will not be granted if credit already received for: ENGL 1201, 1202
Credit will not be granted if credit has been received for: ENGL 1201V
Meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Cihar, James Jay
Description: In ENGL 1201W we will focus on the analysis of literature—specifically novels and short stories—published since 1960 by American authors. We will read in order of publication one book from each of the current and past five decades (two from the 2000s), examining the books’ social, biographical, and historical contexts as well as their content. The required texts are LOST IN THE FUNHOUSE by John Barth, IF BEALE STREET COULD TALK by James Baldwin, THE JOY LUCK CLUB by Amy Tan, THE SWEET HEREAFTER by Russell Banks, THE NAMESAKE by Jhumpa Lahiri, THE PLAGUE OF DOVES by Louise Erdrich, and THE TENTH OF DECEMBER by George Saunders. We will emphasize close reading, consistently and specifically addressing issues of language and meaning. Our books will also fuel an ongoing discussion of the formal aspects of literature, including style, characterization, plot, theme, tone, and symbolism, and their capacity to evoke a powerful response from readers. This four-credit writing intensive class requires attendance at a twice-weekly lecture and once-weekly discussion section. We will write two five-page papers including drafts. We will take one quiz and two tests. We will write several short assignments. Final grades will be figured on forty percent papers, forty percent tests, and twenty percent participation and attendance.

EngL 1401W Introduction to "Third World" Literatures in English
4 credit(s); credit will not be granted if credit already received for: ENGL 1401, 1402
Credit will not be granted if credit has been received for: ENGL 1401V
Meets CLE req of Global Perspectives; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Underwood Seru, Davu
Description: We all have ideas about a "Third World," ideas that are not our own. This introductory course will make a problem of the term "Third World" through an investigation of fiction, poetry and drama. A critical study of imperialism and the development, growth and spread of capitalism will guide us. Students will have an opportunity to read and write on works by some of the most celebrated writers of the so-called Third World, including Jamaica Kincaid, Naguib Mahfouz, Gabriel Garcia Marquez and Wole Soyinka. But we will also venture into writing of the American Indian Movement, the struggles for Irish and Black Nationalism, and writers persecuted under "neo-colonial" regimes. The subjects of race and patriarchy will not be avoided. There are 10 books required for this course but they are all relatively short.

EngL 1501W Literature of Public Life
A-F only, 4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Licht, Melissa Vera
Description: This class will explore how literary language builds the collective knowledge, shared reality, and civic relationships that make up public life. We will investigate how telling stories, documenting events, imagining possibilities, communicating ideals, and even creating fictional characters contribute to our public world. This course offers two tracks for actively engaging in public life. A service-learning option will give you the opportunity to work with others in the community to build literacy, develop skills in media and communication, and strengthen readiness for roles in work and family. Alternatively, an individually designed project will prompt you consider literature and media as a bridge between personal and private life, and to make your own intervention in these fields. Other assignments will include an oral history project and short reflective essays. Required texts include creative non-fiction best-sellers as well as critical essays and memoirs.
Style: 20% Lecture, 60% Discussion, 20% Small Group Activities. This course has a service-learning option that requests 20-25 hours over the semester. Non-service learning students will develop independent projects that request a similar time...
EngL 1501W Literature of Public Life
A-F only, 4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Literature; meets CLE req of Writing
Intensive
Instructor: Baltzer-Lovato, Jennifer A
Description: In this course, we will be looking at various types of media to try to define the genre "literature of public life," and inquire about various divisions of public and private. The first half of the course will be looking texts, films, and TV episodes that I assign, which we will discuss as a group. The second half will be films/TV that the class decides upon together, and the texts will be chosen by students as well, which they will present individually, and lead class in discussing them. Grading will be based on the one presentation/discussion leading, three response papers, and a choice between a public service project or fulfilling the optional service learning component of the course. A large part of grades will also be dependent on participation in discussions and subsequent online conversation. Texts for the class will include Ishiguro's Never Let Me Go, Orwell's 1984, Diaz's Brief and Wondrous Life of Oscar Wao, and Nichols's Milagro Beanfield War.

EngL 1501W Literature of Public Life
A-F only, 4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Literature; meets CLE req of Writing
Intensive
Instructor: Na, Eunha
Description: This course explores the relationship between literature and public life from multiple perspectives. It examines how literature--more simply, our reading experience--can shape and influence how we perceive ourselves in the world and how we engage in public life. In particular, we will consider how people negotiate the 'public' dimension of their everyday life with the 'personal' one by reading fictions and non-fictions. Are there conflicts between two dimensions? If so, where do these conflicts come from? How does each person deal with these gaps? The books we will read together approach these questions through various issues such as sexual orientation, disability, and ethnic/national identities in various genres and forms of writing--memoir, fiction, play, graphic novel, etc. We should bear in mind that any book or any one author does not represent any entire group, but it can illustrate ways in which these issues can be dealt with in one's own terms.

EngL 1501W Literature of Public Life
A-F only, 4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Literature; meets CLE req of Writing
Intensive
Instructor: Bherer, Valerie
Description: In this course, we will be looking at various types of media to try to define the genre "literature of public life," and inquire about various divisions of public and private. The first half of the course will be looking texts, films, and TV episodes that I assign, which we will discuss as a group. The second half will be films/TV that the class decides upon together, and the texts will be chosen by students as well, which they will present individually, and lead class in discussing them. Grading will be based on the one presentation/discussion leading, three response papers, and a choice between a public service project or fulfilling the optional service learning component of the course. A large part of grades will also be dependent on participation in discussions and subsequent online conversation. Texts for the class will include Ishiguro's Never Let Me Go, Orwell's 1984, Diaz's Brief and Wondrous Life of Oscar Wao, and Nichols's Milagro Beanfield War.

EngL 1501W Literature of Public Life
A-F only, 4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Literature; meets CLE req of Writing
Intensive
Instructor: Baltzer-Lovato, Jennifer A
Description: This course explores the relationship between literature and public life from multiple perspectives. It examines how literature--more simply, our reading experience--can shape and influence how we perceive ourselves in the world and how we engage in public life. In particular, we will consider how people negotiate the 'public' dimension of their everyday life with the 'personal' one by reading fictions and non-fictions. Are there conflicts between two dimensions? If so, where do these conflicts come from? How does each person deal with these gaps? The books we will read together approach these questions through various issues such as sexual orientation, disability, and ethnic/national identities in various genres and forms of writing--memoir, fiction, play, graphic novel, etc. We should bear in mind that any book or any one author does not represent any entire group, but it can illustrate ways in which these issues can be dealt with in one's own terms.

EngL 1501W Literature of Public Life
A-F only, 4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Literature; meets CLE req of Writing
Intensive
Instructor: Bherer, Valerie
Description: In this course, we will be looking at various types of media to try to define the genre "literature of public life," and inquire about various divisions of public and private. The first half of the course will be looking texts, films, and TV episodes that I assign, which we will discuss as a group. The second half will be films/TV that the class decides upon together, and the texts will be chosen by students as well, which they will present individually, and lead class in discussing them. Grading will be based on the one presentation/discussion leading, three response papers, and a choice between a public service project or fulfilling the optional service learning component of the course. A large part of grades will also be dependent on participation in discussions and subsequent online conversation. Texts for the class will include Ishiguro's Never Let Me Go, Orwell's 1984, Diaz's Brief and Wondrous Life of Oscar Wao, and Nichols's Milagro Beanfield War.

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
Instructor: Fitzgerald, M. J
Description: This class will introduce you to some of the more important writers of the last one hundred. We will read and...
talk about recent fiction including graphic novels, as well as writers of the stature of Morrison, Coetzee, McCarthy, Munro, and the great modernists Faulkner, Woolf and Joyce. The intention of this class is to make you fall in love with reading in all its variety. If you already are in love, join us anyway, and help to inspire those who resist one of the greatest pleasures in life.

**Style:** 25% Lecture, 50% Discussion. I hope to have conversations between myself and the TAs, between the TAs, and between myself, the TAs and the students.

**Grading:** 5% reports/papers, 20% special projects, 10% quizzes, 20% in-class presentation, 20% class participation, 25% problem solving. This is how I envisage it at the moment, but the balance may change a little between these five areas when I actually make up the syllabus.

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
**Instructor:** Roth-Reinhardt, Anne E
**Description:** Student may contact the instructor or department for information.

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
**Instructor:** Decker, Erica Stacey
**Description:** This section of Modern Fiction will ask: if a magical realism exists in modern English fiction, then what does it look like? We'll start off with a few short stories from Borges, Kafka, Calvino, and Allende, then move on to novels that will stretch and challenge what we think of as realist, surrealist, "magical," modernist or post-modernist, and fantastic. Where does magical realism seem to have crossings with psychological realism or with science fiction and fantasy? How do the texts imaginatively trouble our critical conceptions of space and time, physicality or ephemerality, race, gender, sexuality, (dis)ability, and class? How do some basic concepts of narratology, parallel worlds theory, and the hyperreal illuminate our investigations into these texts? Some of the novels included will be Woolf's Mrs. Dalloway, Rushdie's Midnight's Children, Atwood's The Handmaid's Tale, Winterson's The Passion, and Nalo Hopkinson's The Salt Roads.

**Grading:** 2-3 short papers of 4-5 pp., midterm & final exam, weekly critical questions. Quizzes and in-class writing as necessary. I value energetic, student-centric, problem-posing discussion.

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
**Instructor:** Auyoung, Elaine
**Description:** What counts as fiction? How is it made and what is it for? What can we discover when we attend more closely to the sentences, style, and structure of a novel or short story? Members of this course will acquire an array of strategies for appreciating and approaching literature in a critical way. We will explore exemplary works of literary fiction written since 1900 to the present, focusing first on Modernism in England and America before turning to a set of more contemporary works written in very different styles.

EngL 3001W Textual Analysis: Methods
A-F only, 4 credit(s); 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:** Siric, Geoffrey Michael
**Description:** This section is different from other sections of Textual Analysis: Methods in that we will practice the goals of 3001 (close reading, developing a critical voice, and surveying major trends in literary criticism) through a study of the work of one author, Henry James. My rationale: in order to most sensitively analyze an author's work, one needs to accumulate a kind of reading history with the author, so we will achieve as much of a history as we can through the course of a semester. Note: James can be a difficult author, but the quality of his writing, along with the scope of critical commentary on him, makes him an ideal subject of Textual Analysis. We will read a novel, a novella, many short stories, as well as letters, criticism, and other genres favored by James. In addition, we will look at the way thoughtful critics, through the years, practiced their own methods of Textual Analysis on the work in the James canon we study.

**Style:** 35% Lecture, 50% Discussion, 10% Small Group Activities, 5% Student Presentation.

**Grading:** 70% reports/papers, 10% reflection paper, 10% in-class presentation, 10% class participation.

EngL 3001W Textual Analysis: Methods
A-F only, 4 credit(s); 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:** Ismail, Qadri M
**Description:** Student may contact the instructor or department for information.
EngL 3001W Textual Analysis: Methods
A-F only, 4 credit(s); 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: Pistelli, John Paul
Description: Student may contact the instructor or department for information.

EngL 3002 Modern Literary Criticism and Theory
3 credit(s); 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, differance - 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 3003W Historical Survey of British Literatures I
4 credit(s); Meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: McNaron, Toni A
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You will work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Engl 3003W is the first course in 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 simply want to study writers from 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.
Style: Printed, correspondence section
Grading: See attached syllabus
EngL 3003W Historical Survey of British Literatures I  
4 credit(s); Meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive  
Instructor: Farber, Lianna  
Description: This course will provide a historical survey of British literature from the Anglo-Saxon invasions to the end of the eighteenth century. We will examine changing ideas of what literature is and what should distinguish it from other kinds of language, discuss form, place individual texts in their broad historical and cultural contexts, and practice close textual reading. There will be a particular focus on using literary evidence to make and support textual arguments. There will be weekly short writing assignments and collaborative work in class as well as large group discussions.

EngL 3003W Historical Survey of British Literatures I  
4 credit(s); Meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive  
Instructor: Taylor, Amanda D  
Description: Student may contact the instructor or department for information.

EngL 3004W Historical Survey of British Literatures II  
4 credit(s); Meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive  
Instructor: McNaron, Toni A  
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You will work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. EngL 3004W covers the period from the late eighteenth century to recent times. You may have enrolled in this course after having taken EngL 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 and successors. Either way, you are encouraged to enjoy the experience, considering at every stage the ways in which this literature is relevant to us today.

Style: Printed, correspondence section.
Grading: See attached syllabus

EngL 3004W Historical Survey of British Literatures II  
4 credit(s); Meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive  
Instructor: Goldberg, Brian B  
Description: This course will provide a survey of British and postcolonial literature from the late eighteenth century to the present.
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 20% other evaluation.

EngL 3005W Survey of American Literatures and Cultures I  
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive  
Instructor: McCulloch, Stephen Edward  
Description: This survey course will cover important historical, political, and literary works from the first contact between America and Europe to the escalation of political tension that would become the American Civil War, roughly 1850. Important themes for these readings will be the development of a concept of a uniquely "American" culture and society (as distinct from European culture and society), the changing definition of authorship, what it means to live a public, democratic life, the expansion of political boundaries, the space of America, and the ever present problem of American slavery. As this is a survey course, coverage of what have been considered "important" texts within the academy will be stressed. This is not to say that the works should be considered as intrinsically more worthy of being studied than other possible texts, they have simply gained a certain institutional reputation over time. In addition to becoming familiar with this body of knowledge, we will be developing critical reading skills within a "literary" context.

EngL 3005W Survey of American Literatures and Cultures I  
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive  
Instructor: Burdine, Wesley Holmes  
Description: This class will look at American literature and culture from European settlement up until the American Civil War. It will examine attitudes of race, colonialism, gender, and religion through texts such as Charles Brockden Brown's Wieland, Herman Melville's Moby Dick, and Catharine Maria Sedgwick's Hope Leslie. The class will revolve around the questions of what is American culture and what notions of Americaness do these texts promote?

EngL 3006W Survey of American Literatures and Cultures II  
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Majhor, Samantha Jo  
Description: Student may contact the instructor or department for information.

EngL 3006W Survey of American Literatures and Cultures II  
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive  
Instructor: Kamerbeek, Chris  
Description: This course is a survey of American Literature from 1865 to the present. We will read authors such as Mark Twain, Charlotte Perkins Gilman, W.E.B. DuBois, T.S. Eliot, Jean Toomer, William Faulkner, Ernest Hemingway, Flannery O'Connor, James Baldwin, Tony Morrison, Sylvia Plath, Allen Ginsberg, and a selection of contemporary writers. We will also likely watch at least one film. Students will write two shorter papers and one longer final paper, and take a mid-term and final quiz.

EngL 3006W Survey of American Literatures and Cultures II  
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive  
Instructor: Marzoni, Andrew P  
Description: Student may contact the instructor or department for information.

EngL 3007 Shakespeare  
A-F only, 3 credit(s); credit will not be granted if credit already received for: Engl 3807 Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature  
Instructor: Watkins, John  
Description: This class will examine Shakespeare's major plays as expressions of England's emergence as a major commercial and military power in the late sixteenth and early seventeenth centuries. Special attention will be paid to questions of national sovereignty, England's place in wider European community, religious conflict, and Atlantic expansionism. The first section of the course focuses on three plays that raise questions about England's relationship to the other countries within the British archipelago, especially Scotland: Macbeth, 1 Henry IV, and King Lear. We'll then take up the larger question of England's place in a evolving European intellectual and political culture with attention to three Italian plays, The Taming of the Shrew, The Merchant of Venice, and Othello. After Othello takes us to the Ottoman lands of the eastern Mediterranean, we will conclude with The Tempest and its vision of the old Mediterranean order yielded to the new economies of the Atlantic. Supplementary readings will be available both in Italian and in English translation. There will be two hourly exams and an extensive editorial exercise.  
Style: 40% Lecture, 60% Discussion.  
Grading: 90% reports/papers, 10% class participation.

EngL 3007 Shakespeare  
A-F only, 3 credit(s); credit will not be granted if credit already received for: EngL 3807 Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature  
Instructor: Tandy-Treiber, Ann Marie  
Description: In a nutshell, if Shakespeare hadn't written all those plays I wouldn't be using the phrase "in a nutshell," because he created it. Aside from the translators of the King James Bible, no other writer has had as massive an impact on our language as Shakespeare--so much so that reading his plays often feels like an exercise in "spot the cliches" until you realize they weren't cliches when he created them. We can have mixed feelings about his presence in our culture and our literary cannon, but we can't ignore it. In this class, we'll approach several plays through the lenses of history, sociology, psychology, gender, race, linguistics, performance, and whatever else we think of along the way. These plays are simultaneously windows into Early Modern England and living, breathing, often throbbing creations that continue to resonate in our own world. Also: puns! Many of them about sex. Texts (may change some): The Winter's Tale, The Tempest, The Taming of the Shrew, Much Ado About Nothing, King Lear, Richard the Third, Henry V, and Twelfth Night.  
Grading: 30%: 1 Formal Paper, 30%: 8 Informal Responses, 20%: Staging exercise 10%: Class participation 5%: Formal note taking for the class (twice for the semester) 5%: Quizzes

EngL 3007 Shakespeare  
A-F only, 3 credit(s); credit will not be granted if credit already received for: EngL 3807 Credit will not be granted if credit has been received for: ENGL 3007H; Meets CLE req of Literature  
Instructor: Baehler, Patricia S  
Description: Whether you love him, hate him, or can't get enthused either way, William Shakespeare is the single most important figure in English literature. His plays continue to be relevant 500 years after they were written, and he has contributed more words and phrases to our language than anyone else. From poetry to performance to social perspective, our course will look at a number of important elements of Shakespeare's work while helping you develop your skills in literary analysis and critical thinking.
EngL 3007H Honors: Shakespeare
A-F only, 3 credit(s); Honors or instr consent credit will not be granted if credit already received for: EngL 3007, 3807
Credit will not be granted if credit has been received for: ENGL 3007; Meets CLE req of Literature
Instructor: Scheil, Katherine West
Description: This course is an in-depth examination of representative works by William Shakespeare. We will read Shakespeare's plays in connection with readings related to their political, social, historical, and intellectual backgrounds. We will also engage with a variety of critical approaches to Shakespeare, including performance studies, gender studies, and reception history, covering such topics as sexuality, authority, violence, politics, and staging issues. Finally, we will take into account the complex history of Shakespeare's reputation over the last 400 years, and the performance and critical history of his canon.
Style: 20% Lecture, 80% Discussion.

EngL 3013 Poems about Cities
3 credit(s);
Instructor: Goldberg, Brian B
Description: This class provides students with an opportunity to read and respond to a selection of poems that are, in one way or another, about cities. The primary emphasis of the course is on poetry written in English during the 18th-21st centuries, but some poetry in translation and poetry from other periods is also included. Grades will be based on two interpretive papers, a final exam, and a series of in-class writing exercises (i.e. "quizzes"). Students who have questions about the content or conduct of the course are encouraged to contact the professor in advance.

EngL 3020 Studies in Narrative: The End of the World in Literature & History
3 credit(s), max credits 9, 3 completions allowed; Credit will not be granted if credit has been received for: ENGL 5020;
Instructor: Watkins, John
Description: For at least two and a half millennia, prophets, politicians, and poets have crafted terrifying accounts about the end of the world. This comparatist seminar examines the way different cultures have imagined a final apocalypse with particular attention to the political and social consequences of their visions. Students will read texts that focus on pandemic, extraterrestrial attack, nuclear holocaust, prophecy, cybernetic revolt, divine judgment, resource depletion, meteoric impact, or one of the many other ways in which humans write of their demise. They will use literary analysis to explore the many historical and contemporary wastelands they will encounter. They will write short papers and give in-class presentations on different kinds of apocalypse
Style: 24% Lecture, 75% Discussion.

EngL 3022 Science Fiction and Fantasy
3 credit(s);
Instructor: Rowe, Michael H
Description: Student may contact the instructor or department for information.

EngL 3022 Science Fiction and Fantasy
3 credit(s);
Instructor: McWhorter, Rachel J.
Description: This course will reconsider the genres sci fi and fantasy as some of the most vital for exploring what it means to be "human." Often dismissed as escapist, science fiction and fantasy actually offer endless opportunities to critique and reimagine human culture and experience. We'll be reading diverse writers, including Shelley, Le Guin, Butler, Rowling, etc. We will also read a few short stories, an extended Lewis Carroll poem or two, and explore films and TV series in both genres. Student input will help shape select reading choices for the course. Creativity and imagination will be requisite for essays as well as projects.

EngL 3023H Honors: Children's Literature
A-F only, 3 credit(s);
Instructor: Schumacher, Julie
Description: This reading/discussion class will address a wide range of questions about literature for and about children: What is the purpose of literature for children? How have authors' ideas about children changed? What sorts of books for children have been banned and why? We'll begin with some classics -- Peter Pan, Alice in Wonderland, Treasure Island -- and work our way toward the present. Students will complete two essays and a presentation, and will make use of the Children's Literature Research Center on the West Bank. Writing exercises, brief written responses to the reading, and creative inquiries into the writing process will be a part of the course.

EngL 3024 The Graphic Novel
3 credit(s);
Instructor: Scandura, Jani
Description: This class takes a broad view of the graphic novel, investigating the rise of the cartoon series in late 19th c and early 20th US history, modernist wordless visual "novels," contemporary graphic novel memoirs, and art, by Henry Darger and others, that might productively be read against the graphic novel genre.

EngL 3027W The Essay

4 credit(s);Meets CLE req of Writing Intensive
Instructor: Kinter, Priscilla Lee
Description: This is a course for students ready to face more challenging assignments and deepen their comfort and skill with writing. We will explore creative stylistic choices in assignments and exercises that will include memoir, critical comparisons, analyses, persuasive essays, etc. You will learn to generate topics (analytical and creative), develop essays from those topics, work independently of strict guidelines, and work in small groups to improve each other's writing. You will also learn to write for multiple audiences, both academic and non-academic, and how to make appropriate decisions about content, rhetoric, language, structure, vocabulary, style, and format. Creative nonfiction assignments will teach you to incorporate complex description, analysis, and personal feelings and points of view tempered by objectivity, while identifying and analyzing conventions and styles of creative nonfiction and experimenting with new and more sophisticated writing strategies and styles. The course will introduce you to the basics of good prose writing: the use of original detail, sound and rhythm, image and metaphor, character development and dialogue, voice, point of view, and narrative shape and form. Additionally, we will look at the challenges and opportunities particular to writing nonfiction. The cornerstones of our work will be to develop your ability to 1) describe the world around you, 2) access your memory for material, 3) do the research you need to do to make your work as full as possible, and 4) use your imagination to fill in what you cannot know. This course will encourage you to draw material from your inner world, but also to develop your engagement as a writer within the larger world. This is a writing intensive course. There will be reading and/or writing assignments for every class. As the semester progresses, you will develop longer essays as well as shorter pieces. These assignments will emphasize the entire writing process and push you to revise further than you might usually do, on the principle that 90% of the work of writing is not generation, but revision, revision, and more revision; writing, by its very nature, is time-consuming, for beginners and veterans alike. Think of this like a photography course: enjoyable, rewarding, and inspiring, but also requiring long hours in the darkroom trying to get your prints just right. This is primarily a discussion (as opposed to lecture) course. Much of our class time will be spent in "workshop" mode, in small or large groups, discussing the readings and sharing and critiquing one another's work. Participation of all members of the class is critical. Every student should participate at least once during each class meeting, and all students should be prepared to read from their work in class from time to time
Style: 30% Lecture, 50% Discussion, 20% Small Group Activities. 1 field trip, as part of an extended writing exercise, is possible. There will be short videos incorporated when appropriate.
Grading: 50% reports/papers, 15% written homework, 15% journal, 20% class participation. Written Homework and the Journal are combined into one category (equaling 30% of the grade) that covers in-class writing exercises, homework, and small-group creative work.

EngL 3030 Studies in Drama: Early Modern Drama

3 credit(s), max credits 9, 3 completions allowed;Credit will not be granted if credit has been received for: ENGL 5030;
Instructor: Haley, David B
Description: EARLY MODERN DRAMA. The historical era between the Reformation and the French Revolution, known as the "Early Modern" period, in England was split by the Civil Wars and Interregnum (1640 to 1660). During these two decades, when England got rid of its king and experimented with a republic, London's theaters were shut down. The Elizabethan dramatists (Jonson, Shakespeare, Chapman, Dekker, Middleton) had written for middle-class audiences who attended an open-roofed theater. When the monarchy was restored in 1660 and playhouses reopened, the new audiences were entertained in lighted, indoor theaters by actresses who replaced the boy-actors of Shakespeare's day and by elegant playwrights like Dryden, Etherge, Wycherley, Congreve, Steele, Goldsmith, and Sheridan who wrote for a society more snobbish and class-conscious than the audiences before 1660. Our course, by focusing on comedy, will emphasize the continuity of carnival laughter and farce in British drama from Shakespeare to Sheridan, even as playwrights strove to entertain the increasingly "polite" Restoration and 18th-century audiences.
Style: 20% Lecture, 30% Film/Video, 50% Discussion.
Grading: 50% reports/papers, 40% quizzes, 10% class participation. The eight quizzes are based on study questions that will be posted online four days in advance.
Exam Format: Term paper instead of final

EngL 3040 Studies in Film: Seductions: Film/Gender/Desire

3 credit(s), max credits 9, 3 completions allowed;Credit will not be granted if credit has been received for: ENGL 3040H;
Instructor: Craig, Siobhan S
Description: This course will focus on the multiple and contested ways in which gender and sexuality are engaged by cinema. We will consider the following questions, among others: how does film construct particular sexualities or gender identifications as "natural" and normative or "unnatural" and deviant? What are some of the cinematic codes and conventions that make the world of a film, and the identities proposed within it, seem "normal" and "real," and what
happens when these are challenged? Can the contravention of these codes throw subjectivity into crisis, destabilizing familiar concepts of gender or sexuality? What do we, as film spectators, look for in cinema, and what kinds of sexualities and gendered subjectivities emerge into our dialogue with the screen? The course will introduce films from a variety of national cinemas and historical periods, ranging from the 1920s to the present, and including both mainstream Hollywood cinema and the avant-garde. We will explore different ways of "reading" cinema, the historical contexts surrounding particular films, and some of the theoretical debates that characterize the field of cinema studies. I encourage each of you to be an active spectator. As you watch films, think about your responses. How do films manipulate us—emotionally, aesthetically, politically? How are your expectations satisfied or challenged? What codes are at work?

EngL 3090 General Topics: Origins of English Words
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Liberman, Anatoly

Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You will work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. At present those interested in English etymology study the history of English, methods of linguistic reconstruction, Sanskrit, Greek, Latin, French and so forth. Every subject can be studied in depth, and this is what specialists do. But it is also possible to be introduced to a scholarly discipline and learn enough to have an informed opinion about it. This course is exactly such an introduction. Its user can be anyone who wants to know how the words of English emerged, clashed, combined, lost their initial freshness, and died, to give way to upstarts whose day will also come. We will travel from the misty home of the Indo-Europeans to the North Sea and Great Britain. We will follow the Vikings and the Normans. The books and audio recordings will be your guides in these peregrinations.

Style: This is a printed correspondence section.
Grading: See attached syllabus
Exam Format: No exams
EngL 3090 General Topics: Literature, Science and Technology  
3 credit(s), max credits 9, 3 completions allowed;  
Instructor: Kamerbeek, Chris  
Description: This course explores the conflicts and conversations that occur at the frontiers of scientific thinking and technological innovation by examining select literary and cinematic texts from a variety of historical moments and points of view. We will consider the ambivalence and anxiety that attend progress via topics such as electricity, telegraphy, photography, the railroad, the cinema, Fordism, the atomic bomb, genetic engineering, and the Internet. We will also track the archetype of the "mad scientist," whose dangerous knowledge and often-fatal hubris typically turn a tale cautionary. Course authors may include Mary Shelley, Henry David Thoreau, H.G. Wells, Jorge Luis Borges, Marguerite Duras, Kurt Vonnegut, William Gibson, Italo Calvino, Kazuo Ishiguro, Jennifer Egan, and Gary Shteyngart. Films may include Modern Times, 2001, Blade Runner, Eternal Sunshine of the Spotless Mind, and Wall-E.

EngL 3090 General Topics: The Original Walking Dead in Victorian England  
3 credit(s), max credits 9, 3 completions allowed;  
Instructor: Tandy-Treiber, Ann Marie  
Description: Scientific knowledge about the human body and the process of death expanded hugely in the 19th Century, at the same time that increases in urban populations in England gave rise to the problem of what to do with all the bodies. Concurrently, English explorers in other parts of the world were finding evidence of "buried" civilizations, and construction workers for the Thames Embankment and the London Underground were digging through London's own buried past. Death--and in particular the dead body--became a nexus of anxiety: individual, social, scientific, and historical. In this course, we will trace a number of Victorian responses to these new kinds of knowledge: spiritualism, funeral practices, fears of premature burial, cremation, vampirism, armchair anthropology, and speculative fiction about England's own future. Readings will include Frankenstein, Dracula, and others.

EngL 3101 Survey of Medieval English Literature  
A-F only, 3 credit(s);  
Instructor: Flack, Christopher Harrison  
Description: The medieval period is typically dated from 500-1500AD; while it ended some more than 500 years ago, the stories, genres, and literary techniques common to this time continue to endure even into our contemporary moment. One need only look at our own pop culture to see the influence of the Middle Ages. Not only are stories from this period being adapted and retold quite often (like in the rather loosely-based CGI Beowulf, Syfy's Merlin, or even the Starz series Camelot), but many movies and TV shows owe much of their narrative setting and structure to the Middle Ages (LoTR, the Hobbit, Game of Thrones, and even parodies like Monty Python and the Holy Grail all, for instance, evoke many of the tropes and details germane to this particular period). In this course, then, we'll return to the source, to those narratives that have proven foundational for so much in our collective imaginations and, hopefully, start to understand why literature from this period looms so large today. While this course engages only with British literature, it will nonetheless embody the notion of the "survey" in the fullest sense of the word. We'll range widely through not only through some more traditional Old and Middle English literature--like Beowulf and Chaucer--but also some less familiar texts. We'll read, for instance, the fantastical Welsh Mabinogi, hear of the exploits of the Hound of Ulster in the Tain, and meet a werewolf in Marie de France's Bisclavret. While many of these texts are written in languages different from our own, we'll read almost all in translation, so no particular linguistic acumen will be necessary; Middle English will prove the exception, as we'll read some of this material in the original (don't worry, I'll give you all the tools to make this as accessible as possible). Throughout the course we'll engage with questions like the nature of genre and literary form, the relationship between epic and romance, the representation of war and conquest, religious faith, women and gender, chivalry, and the supernatural. No previous experience with medieval literature is necessary or expected.

EngL 3134 Milton and Rebellion  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ENGL 3134H;  
Instructor: Haley, David B
**Description:** John Milton, next to Shakespeare England's greatest poet, in fact excelled Shakespeare as a political writer and champion of modern liberty. Where Shakespeare wrote to entertain a growingly self-absorbed court, Milton appealed to an enlightened public, addressing their private concerns (marriage and education) as well as the burning topics of politics and religion. The first part of this course will introduce students to Milton's earlier poems and prose leading up to the Regicide of 1649, an event that founded England's republic (and eventually America's) while transforming Milton from a recluse poet to civic servant. The second part of the course is devoted to reading PARADISE LOST, PARADISE REGAINED, and SAMSON AGONISTES, Milton's Restoration masterpieces that look back to the painful birth of freedom that we, 270 years later, still recall as the Great Rebellion.

**Style:** 40% Lecture, 60% Discussion.

**Grading:** 50% reports/papers, 35% quizzes, 15% class participation. Quiz assignments will be posted online four days in advance of the date due.

**Exam Format:** Term paper instead of final exam

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**EngL 3175 20th-Century British Literatures and Cultures I**

3 credit(s); Credit will not be granted if credit has been received for: ENGL 5175;

Instructor: Cucullu, Lois B

**Description:** This class considers how North American imperialisms and colonialisms both actual and spectral have shaped and continue to shape domestic and global cultural imaginaries in the last century and a half. We will engage with literary and artistic traditions that both express and resist the impact of North American (predominately U.S.) colonization of its own citizens and native peoples and on the citizens of other nations, and we will consider the possibilities and limitations of paradigms that engage with questions of imperialism, colonialism, and postcolonialism when confronted with the North American context. Texts by Theodore Roosevelt, Jose Marti, Jessica Hagedorn, Graham Greene, Amy Kaplan, Lan Cao, W.E.B. Dubois, Haunani-kay Trask, Mark Twain, Mine Okubo, Carlos Fuentes, Riverbend, Zita Nunes, Lisa Yoneyama, Mao Tse-tung, Masumi Hayashi, and others.

**EngL 3180 Contemporary Literatures and Cultures: North American Imperialisms and Colonialisms**

3 credit(s), max credits 9, 3 completions allowed; Credit will not be granted if credit has been received for: ENGL 5180;

Instructor: Scandura, Jani

**Description:** This class considers how North American imperialisms and colonialisms both actual and spectral have shaped and continue to shape domestic and global cultural imaginaries in the last century and a half. We will engage with literary and artistic traditions that both express and resist the impact of North American (predominately U.S.) colonization of its own citizens and native peoples and on the citizens of other nations, and we will consider the possibilities and limitations of paradigms that engage with questions of imperialism, colonialism, and postcolonialism when confronted with the North American context. Texts by Theodore Roosevelt, Jose Marti, Jessica Hagedorn, Graham Greene, Amy Kaplan, Lan Cao, W.E.B. Dubois, Haunani-kay Trask, Mark Twain, Mine Okubo, Carlos Fuentes, Riverbend, Zita Nunes, Lisa Yoneyama, Mao Tse-tung, Masumi Hayashi, and others.

**EngL 3330 Gay, Lesbian, Bisexual, and Transgendered Literature: Family as Origin and Invention**

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

Instructor: Cihlar, James Jay

**Description:** In Family as Origin and Invention we will read a selection of authors whose work examines the complicated subject of family in GLBTIQ experiences. A mix of modern classics and recent releases, our texts show characters rebelling against normative constructs while envisioning alternative lives. We will look at the families that we are born or adopted into and those we improvise, gravitate toward, or carefully assemble. Through reading, writing, and discussion, we will define family from multiple perspectives. Alison Bechdel's graphic memoir FUN HOME and Jeanette Winterson's memoir WHY BE HAPPY WHEN YOU COULD BE NORMAL? examine family as both origin and destination, the source that we rebel against with such force we come back around full circle, perhaps with greater compassion and understanding the second time around. In such "boarding house novels" as Jane Rule's THE YOUNG IN ONE ANOTHER'S ARMS, Alan Hollinghurst's THE LINE OF BEAUTY, and Armistead Maupin's TALES OF THE CITY we will see accidental relationships—lodgers, roommates, classmates, co-workers, neighbors, and friends—evolve into intentional communities or chosen families. Two novellas—Justin Torres's WE THE ANIMALS and James Baldwin's GIOVANNI'S ROOM—show how coming out transforms the definition of family, pushing it beyond conventional expectations. Kristin Naca's poetry book BIRD EATING BIRD demonstrates a cross-cultural, intra- and international sense of family, while Joy Ladin's poetry book TRANSMIGRATION notates the journey of the self from one gender to another in the context of family. We will write weekly reading journals or critical framing questions and two four-page papers. Final grades will be figured on the basis of fifty percent for papers, thirty percent for short writing assignments, and twenty percent for attendance and participation.

**EngL 3350H Honors: Women Writers: Women Writing: Nags, Hags, and Vixens**

A-F only, 3 credit(s); Honors or instr consent credit will not be granted if credit already received for: EngL 3850;

Credit will not be granted if credit has been received for: ENGL 3350;

Instructor: Cucullu, Lois B
EngL 3501 Public Discourse: Coming to Terms With the Environment
3 credit(s); Meets CLE req of Environment; meets CLE req of Literature
Instructor: St Lawrence, Robert N
Description: This course will consider three environmental issues (climate change, environmental toxicity, and the loss of biodiversity) and some of the many ways that these issues make their way into our public sphere. By examining a variety of genres (including novels, creative non-fiction, poetry, documentary film, feature journalism, editorial writing, literary or cultural criticism, as well as other representational modes), we will work together to analyze the way that literary form and content come together toward producing social action. This means that over the course of the semester, students will become familiar with both the construction of discourses about ?the environment? and the actual events and materials that call upon these discourses. Students will also be encouraged to practice what we study, writing ~2000 words with an eye toward publication and public participation in addition to ~3000 words of more conventional academic analysis (not including brief informal writings) over the course of the semester. We will share our work. Readings will amount to ~100pp/week on average, with some weeks more ambitious than others.

EngL 3506 Learning Internships II
A-F only, 4 credit(s);
Instructor: Daigre, Eric Stephen
Description: Since this is the second semester of a year-long course, students enrolled in EngL 3506 must have taken EngL 3505 the previous semester. In this second semester of Community Learning Internships, students will work 3-4 hours per week at their community organizations, for 50 total hours by the semester's end. Students will step up their community involvement by developing and executing a substantial action plan or leadership project at their organizations. We will sharpen our social-justice analysis by examining the structural dimensions of poverty and the history of immigration policy. We will also develop a participatory curriculum based on student interests. Assignments vary, but often include short papers, presentations, and a longer paper focused on students' community projects.

EngL 3507W Introduction to Chicana/o Literature
3 credit(s); Credit will not be granted if credit has been received for: CHIC 3507W; Meets CLE req of Diversity and Soc. Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Covarrubias, Alexandra Mendoza
Description: Student may contact the instructor or department for information.

EngL 3592W Introduction to Black Women Writers in the United States
3 credit(s); Credit will not be granted if credit already received for: Afro 3592, EngL 3592
Credit will not be granted if credit has been received for: AFRO 3592W; Meets CLE req of Writing Intensive
Instructor: Coleman PhD, Taiyon J
Description: Black Women Writers in the United States will explore novels, short stories, essays, poetry, memoirs, and drama from the 18th to the late 20th century. The course will critically explore the literature, criticism, theory, contexts and intersections of race, gender, nationality and other historical, social, economic, political and cumulative positions and identities as conveyed and read within the literature texts and their mutable perspectives. The course will consider the assigned texts within larger and applicable literature canons with an emphasis on the close reading, interpretation, synthesis and facilitation of new, different and expanded knowledge, responses and ideas to and about the literature and its infinite meanings, interpretations and applications to the aesthetics and experiences of Black Women in the United States, the larger Diaspora and the (all inclusive) human condition.
Grading: Leading Discussion and Discussion Document (20%); Mid-Term (25%); Final Paper (35%); and Participation (20%)

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 3598W; Meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Wright, John S
Description: Student may contact the instructor or department for information.

EngL 3712 Literary Magazine Production Lab II
A-F only, 4 credit(s);
Instructor: Cihlar, James Jay
Description: ENGL 3712 Literary Magazine Production Lab II is the second of a two-semester course. In this hands-on, experiential lab, we edit, copyedit, design, typeset, proofread, print, publicize, and distribute the 2014 edition of IVORY TOWER, the magazine of art and creative writing by undergraduates at the University of Minnesota. ENGL 3711 is a prerequisite.

EngL 3741 Literacy and American Cultural Diversity
4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Literature
Instructor: Daigre, Eric Stephen
Description: This course combines academic study with experiential learning in order to build more engaged and more critical understandings of literacy, education, multiculturalism, and citizenship. Literature, government studies, as well as sociological, historical, and educational writings will provide a theoretical basis for our inquiries. And as we explore the convergence and divergence between theory and practice, students will work for two hours a week at a participating community organization (K-12 or adult English Language Learning programs). At all points, the course supports students in thinking through questions of ethics and social justice, and in creating social change through their involvement in community literacy activities.

EngL 3883V Honors Thesis
A-F only, 1-4 credit(s), max credits 4, 4 completions allowed; Meets CLE req of Writing Intensive
Instructor: Philippon, Daniel J
Description: EngL 3883V is a workshop that supports students writing Honors theses in the Department of English. While most thesis writing will be done under the direction of your thesis advisor and committee, EngL 3883V provides an overview of the writing and research process, a supportive community of fellow writers, and a structure to help students complete this large-scale, long-term, in-depth project—whether the thesis involves literary analysis or creative writing. The course is designed around the three stages of the thesis-writing process: (1) choosing a topic and formulating a research question and/or creative approach, (2) conducting primary and secondary research and/or developing plot, characters, and themes, and (3) producing a written document that answers your question by drawing on your research and/or expresses your creative vision. In general, the Fall semester focuses on questions of method and craft, research and development, and writing as a means of discovery, while the Spring semester is devoted to workshopping drafts, solving problems, and creating a coherent and elegant final product.

EngL 3960W Senior Seminar: The Image on the Page
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Hancher, Michael
Description: The Image on the Page Before there were movies, TVs, computer screens, and smartphones there were photographs, paintings, and pictures in books and magazines. The familiar saying “A picture is worth a thousand words” applies beyond the ad for which it was coined in 1927. This seminar will examine the production and uses of pictures in distinctive books and magazines that were published as early as 1493 and as late as 2012, most of them housed in the special collections of the University of Minnesota Libraries—which include the Children’s Literature Research Collections, the Sherlock Holmes Collections, the James Ford Bell Library of travel and exploration literature, the Ames Library of South Asia, the Givens Collection of African American Literature, the Tretter Collection of GLBT Studies, and the Wangensteen Historical Library of Biology and Medicine. Readings will include historical, psychological, and philosophical accounts of depiction and the perception of pictures, as well as accounts of how pictures illustrate literary texts. Students will introduce many of the books that we will examine during our visits to the several collections. Each student will also select and study an illustrated book or magazine and present a detailed, illustrated account of it to the seminar and write a substantial paper about it.

EngL 3960W Senior Seminar: Bodies, Selves, Texts
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Lee, Josephine D
Description: This course will explore the way literature, drama, and film portray the intersections of the physical body and social meaning. How do appearance and action take on significance in terms of gender, sexuality, race, class, and (dis)ability? How do bodies perform or challenge conventional modes of behavior and institutional categories? How are bodies understood not only in terms of their appearance, but also in motion? Specific topics will include theorizing the "gaze," discipline and dance, racial and gender passing, and technological embodiment. We will look at a number of stimulating examples drawn from recent literature, film, memoir, plays, and scholarly writing, such as Suzan Lori-Parks's Venus, Eve Ensler's The Vagina Monologues, Kenji Yoshino's Covering, and Rebecca Skloot's The Immortal Life of Henrietta Lacks. These readings and discussions will serve to generate ideas for the senior project.
EngL 3960W Senior Seminar: Consumer Culture and Globalization
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Messer-Davidow, Ellen
Description: Someone famously said that U.S society is bound together by a gummy veneer of consumption, a remark that points to our obsession with possessing material things. But consumer culture is created by a vast, now global corporate infrastructure that entrenches us in a commodity world and fuels our desire to consume. Both consumerism and globalization have been centuries in the making: slowly forming through the eras of early exploration and trade, western industrialization and imperialism, the spread and transformation of capitalism, World Wars and Cold Wars, and innovations in transportation, media, and other technologies. Since we cannot study this long history in one semester, we will read some consumer culture theory and focus on fashion, food, media, and Disney-themed places. These examples will show that processes which make consumerism possible occur in "glocal" registers (at once global and local) and cut across the economic, political, technological, and social domains.

EngL 3960W Senior Seminar: The Western: Looking Awry
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Craig, Siobhan S
Description: The western is, famously, an iconic American art form; the classic films of the genre envision an ostensibly immaculate heroic white masculinity. However, ambivalence and contradiction have always characterized the western; gender, desire, race and nation emerge as problematic constructions from the beginning. The films of the great director John Ford, which created John Wayne as an American male ideal, are suffused by this ambivalence. We will first meet John Wayne in Ford's "Stagecoach" (1939) as the androgynous "Kid," a horseless failed cowboy; in "The Searchers" (1956) masculine protectiveness has become incestuous obsession, and the boundaries of white Americanness are collapsing. Throughout the course, we will explore the western as an evolving genre which simultaneously produces and undercut its own fictions and icons, parodying, imitating and commenting on its own aesthetic codes and political constructions. We will consider "classic" westerns, "spaghetti westerns" (Leone), "anti-westerns" (Arthur Penn, Peckinpah), gay westerns (Ang Lee), feminist westerns (Scott), post-modern westerns (Jarmusch) and western parodies (Brooks). This course will familiarize students with major concepts and tools of film analysis and scholarship. It will also engage some of the historical, cultural and political contexts of the Western genre. We will engage in close textual analysis, as well as thematic and theoretical discussion.

EngL 3960W Senior Seminar: Dreams and Middle English Dream Visions
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Krug, Rebecca L
Description: This course is an introduction to the literary genre known as the "dream vision" and to historical, theoretical, and anthropological discussions of dreams. We concentrate on four late medieval dream visions: Langland's Piers Plowman; Chaucer's Book of the Duchess and House of Fame; and the Gawain-Poet's Pearl. Students need not have taken a course in Middle English literature (we read the most difficult texts in parallel text editions--facing Modern English/Middle English pages--but we read Chaucer in Middle English only) but must be willing to work with the Middle English language in this class. We concentrate primarily on classical and medieval works (writers studied may include Aristotle, Artemidorus, Cicero, Galen, Prudentius, Synesius), and read these works in relation to contemporary discussions of dreams including anthropological studies such as Lee Irwin's study of Native American traditions, Marcia Hermansen's work with dreaming and Islamic culture, and Serenity Young's account of the relationship between Buddhism and dream theory. We work with non-literary texts that shaped classical and medieval (and ultimately modern) ideas about dreaming including lunaries (books detailing the relationship between moon phases and dreaming), dream guides (the popular Somnia Danielis), and scriptural sources. Further, we look at some contemporary research (cognitive science/psychological studies) on dreams and dreaming. There is also a creative/personal element incorporated into the class: in addition to writing a long (approx. 15 page) seminar paper (which will work both with primary material and secondary sources), students must keep a dream diary for each week of the course (and we discuss these in class) and a reading notebook. Please note: this is a seminar not a lecture course: regular attendance and active participation are required (absence/failure to prepare for seminar meetings/failure to contribute to discussion will count heavily against your final grade). There are also quizzes and a language exam.

EngL 3960W Senior Seminar: Horror: British Gothic Fiction
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Yahav, Amit S.
Description: This course is an introduction to the literary genre known as the "horror" and to historical, theoretical, and anthropological discussions of horror. We concentrate on four classic gothic novels: Walpole's The Castle of Otranto; Dibdin's Vathek and The Castle of Otranto; and Miss Maria Edgeworth's Don Juan. Students need not have taken a course in English language or literature (we read the most difficult texts in parallel text editions--facing Modern English pages--but we read Walpole in English only) but must be willing to work with the Middle English language in this class. We concentrate primarily on classical and medieval works (writers studied may include Aristotle, Artemidorus, Cicero, Galen, Prudentius, Synesius), and read these works in relation to contemporary discussions of dreams including anthropological studies such as Lee Irwin's study of Native American traditions, Marcia Hermansen's work with dreaming and Islamic culture, and Serenity Young's account of the relationship between Buddhism and dream theory. We work with non-literary texts that shaped classical and medieval (and ultimately modern) ideas about dreaming including lunaries (books detailing the relationship between moon phases and dreaming), dream guides (the popular Somnia Danielis), and scriptural sources. Further, we look at some contemporary research (cognitive science/psychological studies) on dreams and dreaming. There is also a creative/personal element incorporated into the class: in addition to writing a long (approx. 15 page) seminar paper (which will work both with primary material and secondary sources), students must keep a dream diary for each week of the course (and we discuss these in class) and a reading notebook. Please note: this is a seminar not a lecture course: regular attendance and active participation are required (absence/failure to prepare for seminar meetings/failure to contribute to discussion will count heavily against your final grade). There are also quizzes and a language exam.

EngL 3993 Directed Study
1-4 credit(s), max credits 8;
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
EngL 4003 History of Literary Theory
A-F only, 3 credit(s);
Instructor: Farber, Lianna
Description: This course explores some of the major questions about literary theory that preoccupied important thinkers from antiquity through modernism by looking at how they posed and answered questions about language (how words mean), audience (to whom they mean) and the literary (how literary writing differs from other forms of writing). We will begin by examining how theorists thought that words bear meaning: when, for example, can words carry more than their literal meaning? Must they always carry more than their literal meaning? If and when they do carry "extra" meaning, how do we know what to understand? Next, we will look to questions of audience: who is the implied audience for literature? Is the implied audience necessarily male? Is the audience's understanding of a work of literature the same as the author's? how can the author manipulate understanding? What is the relationship between literature and rhetoric? Finally, we will explore these theorists' understanding of what literature is and how it differs from other kinds of writing. Readings will include works by Plato, Aristotle, Augustine, Christine de Pizan, Dante, Sidney, Behn, Wordsworth, Coleridge, Shelley, and Woolf.
Style: 25% Lecture, 75% Discussion.

EngL 4233 Modern and Contemporary Drama
A-F only, 3 credit(s);
Instructor: Lee, Josephine D
Description: This course surveys a range of works written for theater in the 19th and 20th century. The course will emphasize how the major aesthetic forms of modern drama—the well-made play, realism, expressionism, symbolism, epic theater, absurdism; presented not just distinctive theatrical styles, but also new ways of "seeing" for the theatrical spectator. We will also look at how social differences, as informed by gender, class, and race, informs the content and presentation of these plays. Emphasis will be placed on understanding theatrical form and production as well as the demands of reading dramatic literature.
Style: 25% Lecture, 50% Discussion, 25% Small Group Activities.
Grading: 75% reports/papers, 10% attendance, 15% class participation.

EngL 4593 The African-American Novel
3 credit(s); Credit will not be granted if credit has been received for: AFRO 5593;
Instructor: Wright, John S
Description: AFRO3593&5593 /ENGL 4593: The African American Novel Since romanticism and literary abolitionism converged in the 1850s, African American storytellers have discovered strategic uses for the modern novel -- making it both an ethical instrument and a vessel of ancestral traditions. Inclined initially more to social realism than to fantasy, romance, or surrealism, black American novelists have created a "committed" literature rooted in the view that the images and ideas of the novel are potential weapons in the struggle for social justice and social transformation. Yet an ever-ready countercurrent of comedies, satires, historical fables, and speculative fictions conjured up by African American novelists express their indebtedness also to philosophical and folk traditions that view literature as a ritualistic and healing exploration of human possibility and the transmundane -- of alternate worlds and worldviews. This course explores these African American novelistic traditions -- plot patterns, character types, settings, symbols, themes, movements, and mythologies. From the little known novelistic worlds of late nineteenth century preachers and journalists to Harlem Renaissance political thrillers and urban picaresques to internationally renowned neo-slave narratives, Black Arts magic realism, and philosophical metafiction from the late twentieth century, we will steer a course through the creative and critical torrents of the modern black imagination. Because these writers have been profoundly concerned with social and historical "truth," we will find that the materials and techniques of many African American novels, while dramatizing the conflicts and consciousness of the individual, attempt to "reconstruct" emblematically the experiences and historical consciousness of the group. To complement lectures, during regular class meetings we will rely periodically on filmed interviews or documentaries, as well as on a variety of informal small groups to help focus your attention on the texts and concepts at hand, to strengthen your abilities to articulate and share what you have learned, and to provide another gauge of how successfully you are mastering various elements of the course. The course is designed for advanced undergraduates and graduate students. Written assignments and grading options as follows: Critical Research Paper: Each student is required to write an 10-12 page typed research paper (15-20 pages for graduate students) examining the critical reception (original reviews, etc.), interpretive controversies, and current standing of one of the course novels Grades: Option A - 40% journal, 40% term paper, 10% one-page rationales, 10% class participation Option B - 30% short paper, 50% term paper, 10% rationales, 10% class participation.

EngL 4613 Old English II
3 credit(s);
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 sorrows have 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 5090 Readings in Special Subjects: Henry James and Literary Criticism**

3 credit(s), max credits 9, 3 completions allowed; grad student or instr consent
Credit will not be granted if credit has been received for: ENGL 5100;
Instructor: Sirc, Geoffrey Michael
**Description:** According to recent MLA study, Henry James is now the #1 most written about American author, so this course is designed to offer students a space where they can work through the key literature and criticism of this most compelling writer. We'll look at all facets of James's work as a writer -- early middle and late; canonical works and some of the lesser known texts; tales, novels, criticism, travel writing, notebooks, correspondence, and drama. We'll also survey the major criticism on James, from contemporaneous commentary through contemporary, criticism which so very often rises to the occasion of its subject, and which offers an interesting lens through which to view the evolution of modern literary criticism. Besides course reading, students will work on a presentation of some of the critical writing on James and a course project (a draft of a possible article on James, as well as a conference presentation distillation of that project).

**EngL 5090 Readings in Special Subjects: The Working Writer**

3 credit(s), max credits 9, 3 completions allowed; grad student or instr consent
Credit will not be granted if credit has been received for: ENGL 5100;
Instructor: Kirkpatrick, Patricia
**Description:** Student may contact the instructor or department for information.

**EngL 5711 Introduction to Editing**

4 credit(s);
Instructor: Zuckerman, Jeffrey Jay
**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. Editor-writer relationship, manuscript reading, author querying, rewriting, style. Some discussion of copy editing. Students develop editing skills by working on varied writing samples.

**Grading:** See attached syllabus

**EngL 5711 Introduction to Editing**

4 credit(s);
Instructor: Tortorello, Michael
**Description:** So, you want to learn how to chisel cuneiform? Have we got a class for you! If the media doomsayers are right, editing is a dying craft. Right now, polytechnic institutes are training the next generation of copyeditors in far-off lands. Newspapers are shedding weight like dueling celebs in an US photospread. Book editors are bidding on the memoirs of a viral-video cat. But someone, somewhere, has to generate that alumni magazine and the co-op newsletter. In other words, a demand persists in the American marketplace for someone who knows how to turn pulp into paper. In this class, we'll study editing as a process, a protocol, and a philosophy. To elaborate, we'll study the conventions of editing (grammar, story, and style) and we'll meet professionals who do it well. We'll analyze why creative collaboration can feel like a playground brawl. Mostly, using real, raw manuscripts from newspapers, magazines, and books, we'll practice how to screw up the written word--with the ultimate goal of screwing up a little less.

**Style:** 10% Lecture, 20% Discussion, 55% Small Group Activities, 10% Student Presentation, 5% Guest Speakers.

**EngL 5805 Writing for Publication**

3 credit(s);
Instructor: Ross Jr, Donald
**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;
Instructor: Clayton, Tom
EngL 5992 Directed Readings, Study, or Research  
1-3 credit(s), max credits 45, 15 completions allowed;  
Instructor: Wright, John S  
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;  
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;  
Instructor: Daigre, Eric Stephen  
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;  
Instructor: Ismail, Qadri M  
Description: Student may contact the instructor or department for information.

EngL 5992 Directed Readings, Study, or Research  
1-3 credit(s), max credits 45, 15 completions allowed;  
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;  
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;  
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;  
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;  
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;  
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;  
Instructor: Escure, Genevieve J  
Description: Student may contact the instructor or department for information.
Instructor: Messer-Davidow, Ellen
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;
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;
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;
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;
Instructor: Hampl, Patricia
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;
Instructor: Sprengnether, Madelon M
Description: Student may contact the instructor or department for information.

EngL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed;
Instructor: Rabinowitz, Paula
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;
Instructor: Haley, 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;
Instructor: Brennan, Timothy Andres
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;
Instructor: Scandura, Jani
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;
Instructor: Gonzalez, Ramon
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;
Instructor: Cucullu, Lois B
Description: Student may contact the instructor or department for information.

EngL 5992 Directed Readings, Study, or Research
EngL 5992 Directed Readings, Study, or Research
1-3 credit(s), max credits 45, 15 completions allowed;
Instructor: Craig, Siobhan S
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;
Instructor: Krug, Rebecca L
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;
Instructor: Goldberg, Brian 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;
Instructor: Farber, Lianna
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;
Instructor: Baxter, Charles
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;
Instructor: Brown, Tony C.
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;
Instructor: Scheil, 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;
Instructor: Scheil, Katherine West
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;
Instructor: Matar, Nabil I
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;
Instructor: Campion, Peter
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;
Instructor: Auyoung, Elaine
Description: Student may contact the instructor or department for information.

EngL 8090 Seminar in Special Subjects
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Morris, Leslie C
Description: This seminar will explore marginalia as literary form. We will first consider marginalia in its most literal meaning of writing found in the margins of texts, and move to a broader consideration of the materiality of literary texts and the poetics of writing "outside the margins." Examining classic cases of marginalia (Coleridge; Poe; Kafka; Benjamin), we
will explore text that is both on and outside the margins; text that slips off the page; paratext; writing found outside the margins, within the parentheses, on the body, on the wall. Topics to be addressed include: the archive and marginalia; discarded texts and their ‘afterlives’; marginalia and the found text, the fragment, and translation; imprint of Talmudic text on contemporary Jewish poetic practices; hypertext as marginalia; the ways in which emendation, annotation, citation, footnotes, the index and gloss expand the frame of the text. The seminar will also consider the place of print text in Conceptual and Pop art and the relationships between word, text, and image. Readings by, among others, Benjamin, Blonstein, Borges, Calvino, Celan, Cixous, Coleridge, Derrida, Oswald Egger, Freud, Kafka, Karasick, Pessoa, Poe, Sebald. Sondheim, Benjamin Stein,. Class will be conducted in English, with all readings available in English.

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

EngL 8120 Seminar in Early Modern Literature and Culture: The Early Modern Mediterranean World
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
**Instructor:** Matar,Nabil I
**Description:** The Early Modern Mediterranean World: Britain, France, and the Ottoman-Arabic Mediterranean. Nabil Matar
The course examines the crucial but understudied period between the demise of Spain (Braudel's terminus ad quem) and the beginning of the Napoleonic invasion. It focuses on France and Britain, the two superpowers that, in the course of two centuries, came to dominate the Mediterranean basin. At the same time, the course brings in dialogue Ottoman-Arabic texts. As France and Britain began to prevail both navigationally and commercially, how did the other side of the Mediterranean view the "enlightenment" about which Muslim ambassadors wrote? Emphasis will be placed on the economic, military, and possibly religious reasons that prepared for European dominance in this decisive period of transition. Primary sources (all in English/English translation) will include Arabic/Ottoman, English, and French chronicles, ambassadorial reports, literary works, and captivity accounts.

EngL 8510 Studies in Criticism and Theory: Digital Humanities
3 credit(s), max credits 12, 4 completions allowed;
**Instructor:** Hancher,Michael
**Description:** During the first decades of this century the written archive has moved from the paper page to digital storage and access, affording new opportunities for interpretation and analysis. At the same time the narrowly focused project called "computers and the humanities" or "humanities computing" has grown to become Digital Humanities ("DH"). One attractive definition of Digital Humanities is "humans understanding humans with the aid of computers" (George Oates). In this seminar we will examine some already canonical accounts of what DH brings to the study of literature and other social forms of communication. We will also learn about several successful DH initiatives launched at the University of Minnesota in recent years, and explore opportunities for further development in this promising field.

EngL 8510 Studies in Criticism and Theory: Dialectics & Dialectical Thought
3 credit(s), max credits 12, 4 completions allowed;
**Instructor:** Brennan,Timothy Andres
**Description:** This course is about giving students an understanding, both historical and practical, of what it means to think dialectically, and why it matters. As for the historical, 1) the term (in philosophy) has been central since antiquity. In Aristotle it referred to the art of argument, particularly refutation; in Plato, to the method of acquiring truth by means of a dialogue. Dialectics is, in fact, another name for dialogue, and in all its variants it is dialogical. In modernity, very famously in Hegel, dialectics achieves a massive historical and political prominence. It is not going too far to say that it generates a global wave of social activism and critique, leading in time to the well-known story of Marx’s development of a theory of historical materialism and of social contradiction. Here it becomes nothing less than the philosophical logic of revolution. Our own time (the last three or four decades) has been notoriously at war with dialectics (partly because of its fear of revolution), and yet here we confront a paradox. For the word "dialectics" is used everywhere in essays and books today, deployed with complete abandon, and at times even applied to schools like deconstruction or the Deleuzian critique of modalities in the most confusing ways, since both are so explicitly hostile to the Platonic and Hegelian sources of dialectical thought. As for the practical aspects of the issue, 2) as we struggle to compose our essays and dissertations, we are forced to confront eventually the question of how we are to prove what we set out to prove. What constitutes a case? How tell whether one has a viable idea or not? What purchase do our ideas have on the world? Our discussion of dialectics will address what the term means as method, and how that method differs from others -- from, say, the neo-positivism of world literature; the liberal empiricism of affect theory, ontologies of the body, and surface reading; the prophetic anarchy of autonomist communism and Badiou's theory of the "Event"; and the perennial attractions in early 21st century America and Europe to a "productive" reading that forecloses any dialogue between an active subject and an active object. Let me stress, though, that the course will proceed basically. Little prior knowledge of the above subjects is assumed. Our work will be to read slowly and thoroughly through a discreet number of central texts in order to arrive at useable, working definitions of dialectics, contrasting this mode of thought to other alternatives. My desire is to place the issue of this mode of thought in its proper history, and to leave students with a clear reason for embracing or rejecting it in ways relevant to their own writing and to their understanding of the current moment of theory in the humanities.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
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;
Instructor: Wright, John S
Description: Student may contact the instructor or department for information.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
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;
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;
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;
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;
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;
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;
Instructor: Elfenbein, 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;
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;
Instructor: Escure, Genevieve J
Description: Student may contact the instructor or department for information.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
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;
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;
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;
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;
Instructor: Hampl, Patricia
Description: Student may contact the instructor or department for information.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
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;
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;
Instructor: Haley, David B
Description: Student may contact the instructor or department for information.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
Instructor: Brennan, Timothy Andres
Description: Student may contact the instructor or department for information.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
Instructor: Scandura, Jani
Description: Student may contact the instructor or department for information.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
Instructor: Gonzalez, Ramon
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;
Instructor: Cucullu, Lois B
Description: Student may contact the instructor or department for information.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
Instructor: Craig, Siobhan S
Description: Student may contact the instructor or department for information.
EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
Instructor: Krug, Rebecca L
Description: Student may contact the instructor or department for information.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
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;
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;
Instructor: Baxter, Charles
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;
Instructor: Brown, Tony C.
Description: Student may contact the instructor or department for information.

EngL 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing
1-9 credit(s), max credits 15, 15 completions allowed;
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;
Instructor: Scheil, Katherine West
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;
Instructor: Matar, Nabil I
Description: Student may contact the instructor or department for information.

**English: Creative Writing 222 Lind Hall**

EngW 1102 Fiction Writing (Intro)
OPT No Aud, 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 Poetry Writing (Intro)
OPT No Aud, 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 Journal, Essay, Memoir Writing (Introduction)
OPT No Aud, 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:** 50% Discussion, 50% Laboratory. workshop
**Exam Format:** Revised nonfiction/final portfolio of nonfiction

EngW 3102 Fiction Writing (Intermediate)
OPT No Aud, 3 credit(s);
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 3104 Poetry Writing (Intermediate)
OPT No Aud, 3 credit(s);
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 Journal, Essay, Memoir Writing (Intermediate)
OPT No Aud, 3 credit(s);
Instructor: STAFF
**Description:** This intermediate level course is for students who have some experience writing literary nonfiction: memoir, essay, biography, etc. Students will read and analyze contemporary and classic nonfiction works while also constructing and revising their own nonfiction writing. Written comments on student work, workshop participation, some short papers and presentations, attendance at a literary reading and a final portfolio of nonfiction writing.
**Style:** 25% Lecture, 50% Discussion.
**Exam Format:** revised nonfiction/final portfolio of nonfiction

EngW 3110 Topics in Creative Writing: Journaling Into Fiction
OPT No Aud, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Daniel, Judith A
**Description:** This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You will work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. 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. 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.
**Style:** This is a printed correspondence section.
**Grading:** See attached syllabus
group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Journaling into Fiction, like all creative writing courses, can't be taught. I can start you on the way toward developing the craft of writing for a public audience, but your own love of reading and writing will be the most important impetus for your success. The other important thing you'll need is a passionate belief that you have something so exciting, interesting, and valuable to tell the rest of us that you will forge a pattern of words to make us pay attention. If you're not keeping a journal at the moment, start one today. This course is designed to work from your journals so if you're not keeping one, many of the suggestions and exercises won't make as much sense to you.

Style: This is a printed correspondence section.
Grading: See attached syllabus

EngW 3110 Topics in Creative Writing: Journaling Into Fiction
OPT No Aud, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Daniel, Judith A
Description: Student may contact the instructor or department for information.

EngW 3110 Topics in Creative Writing: Journaling Into Fiction
OPT No Aud, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Daniel, Judith A
Description: Student may contact the instructor or department for information.

EngW 3110 Topics in Creative Writing: Journaling Into Fiction
OPT No Aud, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Daniel, Judith A
Description: Student may contact the instructor or department for information.

EngW 3110 Topics in Creative Writing
OPT No Aud, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Baxter, Charles
Description: Student may contact the instructor or department for information.

EngW 3960W Writing Workshop for Majors
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Schumacher, Julie
Description: This advanced undergraduate writing workshop is designed to allow students to complete their senior projects -- in literary fiction or creative nonfiction -- for the English major. Students will write and revise 15-20 pages of polished *new* prose (the senior project) by the end of the semester, in addition to completing writing exercises, a presentation, and other assignments along the way. Class time will be spent on writing exercises, enthusiastic discussion of assigned reading, exploration of prose techniques, and workshops. Students will read and write both fiction and nonfiction, regardless of the genre of their senior projects.

EngW 3960W Writing Workshop for Majors
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Fitzgerald, M. J
Description: In this seminar you will be working towards your final project, a piece of fiction of between 13 and 17 pages. The seminar will be focusing on character and on real life stories based on real life experiences, the best preparation for any adventure in story telling that you may feel drawn to, whether it is science fiction, romance or fantasy. The hallmarks of such stories are observation and psychological acuity, and you will be narrowing your focus on the characteristics of psychologically driven narratives. We will be doing in class exercises and out of class reading of stories that will then be discussed in class. The last three weeks of the semester will be given over to the Workshop of each student's story before the final revision.

EngW 5130 Topics in Advanced Creative Writing: The Working Writer
4 credit(s), max credits 16, 4 completions allowed;
Instructor: Kirkpatrick, Patricia
Description: Student may contact the instructor or department for information.

EngW 5202 Journal and Memoir Writing
3 credit(s);
Instructor: Galt, Margot Kriel
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You will work independently, not as part of a student
group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Remembering incidents and facts, mulling them over in the present, and extracting insights from them is one of a writer's most important activities. As a result of taking this course, you will be able to brainstorm material from your memory; use a journal to develop writing; draft memoir prose, employing principles of literary variety, appropriate diction, sensuous description, narrative momentum, poetic and thematic shaping, and suitable metaphor; employ principles of revision; use the response of readers or listeners to improve your work; identify and appreciate works of memoir by earlier and contemporary authors; and begin to understand how racial and ethnic differences affect the stories people tell about themselves.

Style: This is a printed correspondence section.
Grading: See attached syllabus

EngW 5205 Screenwriting
4 credit(s);
Instructor: STAFF
Description: A hands-on advanced workshop for students with experience in creative writing and/or a working knowledge of basic screenplay format. Students' scripts-in-progress may be either a complete short film or an excerpt from a feature-length film. Class critiques will emphasize issues of imagery, characterization, plot and structure, as well as creative process within screenwriting. Also expect in-class screenings, guests, and nuts and bolts discussion about story pitches, synopses and other vagaries of the professional industry. For advanced undergraduates, graduate students, and writers from the community interested in continuing education. Ask for a permission number in 222 Lind Hall.

EngW 5993 Directed Study in Writing
1-4 credit(s), max credits 18, 18 completions allowed;
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
4 credit(s), max credits 16, 4 completions allowed;
Instructor: Baxter, Charles
Description: Student may contact the instructor or department for information.

EngW 8120 Seminar: Writing of Poetry: Lyric Structures
4 credit(s), max credits 8;
Instructor: Campion, Peter
Description: In this course, we'll read and discuss short poems from several historical periods. We'll ask formal questions, such as, what action does this poem perform, how does it move, what might make it moving? We'll also consider historical contexts that influence various definitions of "lyric poetry." Students will complete weekly creative assignments and one "craft paper."

EngW 8130 Seminar: Writing of Literary Nonfiction
4 credit(s), max credits 8;
Instructor: Gonzalez, Ramon
Description: Student may contact the instructor or department for information.

EngW 8170 MFA Practicum: EngW 1101W
S-N only, 3 credit(s);
Instructor: Gonzalez, Ramon
Description: Student may contact the instructor or department for information.

Entomology 219 Hodson Hall

Ent 1905 Topics: Freshman Seminar: Iceland: Landscapes, Natural Resources & Env. Mgmt
2 credit(s), max credits 3, 1 completion allowed;
Instructor: Ferrington Jr, Leonard Charles
Description: Student may contact the instructor or department for information.

Ent 4015 Ornamentals and Turf Entomolgy
3 credit(s);
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;
- 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 5009 Pesticides in Horticulture: Their Use and Abuse**
- A-F only, 3 credit(s);
- Instructor: Krischik,Vera Aber
- **Description:** Student may contact the instructor or department for information.

**Ent 5051 Scientific Illustration of Insects**
- 3 credit(s);
- Instructor: Holzenthal,Ralph W
- **Description:** Student may contact the instructor or department for information.

**Ent 5121 Applied Experimental Design**
- 4 credit(s); Stat 5021 or equiv or instr consent
- Credit will not be granted if credit has been received for: AGRO 5121;
- Instructor: Ehlke,Nancy Jo
- **Description:** This class is designed for graduate students interested in developing practical statistical research skills beyond topics covered in Applied Statistical Analysis (STAT 5021). Successful students will learn central principles in sampling, experimental design, and statistical analysis, and will learn to recognize and analyze results from experimental designs that are commonly used in agricultural, food and natural resource sciences. Students will be able to generate testable hypotheses, organize a work plan to collect research data, and analyze results using appropriate software such as R, SAS, Excel and others as appropriate for specific designs. The course consists primarily of lectures on basic concepts and applications, and discussion sections focus on problem sets, lecture topics that require additional depth, and student projects, as student needs dictate. Grades are based on seven problem sets (10% each) and a semester design project (30%) tailored to individual student research interests.

**Ent 5361 Aquatic Insects**
- A-F only, 4 credit(s);
- Instructor: Ferrington Jr,Leonard Charles
- **Description:** This course is designed for upper level undergraduate (junior and senior) and graduate students with interests in General Biology, Entomology, Aquatic Ecology, Limnology, Water Resources or Conservation Biology. Course content includes lectures, independent readings, and laboratory and field exercises. Students with no previous formal training in Entomology are encouraged to enroll, as an overview of basic entomological concepts will be presented during the first few weeks of class. The text will be Merritt & Cummins (eds), &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;  
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;  
Instructor: STAFF  
Description: Individual field, lab, or library studies in various aspects of entomology.

Ent 5920 Special Lectures in Entomology  
1-4 credit(s), max credits 12, 3 completions allowed;  
Instructor: STAFF  
Description: Lectures or laboratories in special fields of entomological research given by a visiting scholar or regular staff member.

Ent 8200 Colloquium in Social Insects  
1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Spivak, Marla  
Description: Student may contact the instructor or department for information.

Ent 8300 Graduate Seminar  
S-N only, 1 credit(s);  
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: Fallon, Ann M  
Description: Student may contact the instructor or department for information.

Ent 8594 Research in Entomology  
S-N only, 1-16 credit(s), max credits 36, 6 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: Mesce, Karen A  
Description: Student may contact the instructor or department for information.

Ent 8594 Research in Entomology  
S-N only, 1-16 credit(s), max credits 36, 6 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
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 8594 Research in Entomology
S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;
Instructor: Ostlie, Kenneth R
Description: Student may contact the instructor or department for information.

Ent 8594 Research in Entomology
S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;
Instructor: Spivak, Marla
Description: Student may contact the instructor or department for information.

Ent 8594 Research in Entomology
S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;
Instructor: Hutchison, William D
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: 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: Heimpel, George Eugene
Description: Student may contact the instructor or department for information.

Ent 8594 Research in Entomology
S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;
Instructor: Kells, Stephen A
Description: Student may contact the instructor or department for information.

Ent 8594 Research in Entomology
S-N only, 1-16 credit(s), max credits 36, 6 completions allowed;
Instructor: Aukema, Brian Henry
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: Tinerella, Paul P
Description: Student may contact the instructor or department for information.

Entrepreneurship  3-306 Carlson School of Management

Entr 6020 Business Formation
A-F only, 4 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.
**Entr 6021 Preparing and Implementing the Business Plan**
- A-F only, 2 credit(s), max credits 4, 1 completion allowed;
- Instructor: Tandon, Rajiv
- Description: Student may contact the instructor or department for information.

**Entr 6023 Financing Business Ventures**
- A-F only, 4 credit(s);
- Instructor: Fine, Alan Raymond
- Description: Student may contact the instructor or department for information.

**Entr 6036 Managing the Growing Business**
- A-F only, 2 credit(s);
- Instructor: Hall PhD, Linda Jean
- Description: Student may contact the instructor or department for information.

**Entr 6037 Corporate Venturing**
- A-F only, 2 credit(s);
- Instructor: Nyman, Martin Frederick
- Description: Student may contact the instructor or department for information.

**Entr 6041 Initiating New Product Design and Business Development**
- A-F only, 2-4 credit(s), max credits 10, 3 completions allowed; MBA student Credit will not be granted if credit has been received for: ME 8221;
- Instructor: Durfee, William K
- Description: See web site for course description.

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**Environmental Sciences, Policy, and Management**

**ESPM 1011 Issues in the Environment**
- 3 credit(s); Meets CLE req of Environment
- Instructor: Blinn, Charlie
- 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 theme for Environment. 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.

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**ESPM 1011 Issues in the Environment**
- 3 credit(s); Meets CLE req of Environment
- 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 theme for Environment. 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 1012H Environmental Science and Society**  
A-F only, 3 credit(s); Meets CLE req of Environment  
**Instructor:** Ferrington Jr, Leonard Charles  
**Description:** Student may contact the instructor or department for information.

**ESPM 1425 The Atmosphere**  
A-F only, 4 credit(s); High school algebra  
Credit will not be granted if credit has been received for: GEOG 1425; Meets CLE req of Environment; meets CLE req of Physical Sciences  
**Instructor:** Snyder, Peter K  
**Description:** Student may contact the instructor or department for information.

**ESPM 2021 Environmental Sciences: Integrated Problem Solving**  
A-F only, 3 credit(s);  
**Instructor:** Dalzell, Brent James  
**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, 5% Student Presentation, 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

**ESPM 2021 Environmental Sciences: Integrated Problem Solving**  
A-F only, 3 credit(s);  
**Instructor:** Becker, Dennis 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, 5% Student Presentation, 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

**ESPM 3000 Seminar on Current Issues for ESPM: The Fracking Debate**  
A-F only, 1 credit(s), max credits 6, 6 completions allowed;  
**Instructor:** Allan, Deborah L  
**Description:** Student may contact the instructor or department for information.

**ESPM 3011W Ethics in Natural Resources**  
3 credit(s); Meets CLE req of Writing Intensive  
**Instructor:** Cuthbert, Francesca J  
**Description:** Student may contact the instructor or department for information.

**ESPM 3012 Statistical Methods for Environmental Scientists and Managers**  
A-F only, 4 credit(s); Two yrs of high school math  
Credit will not be granted if credit has been received for: STAT
Instructor: Burk, Thomas Edward

Description: This course focuses on both the foundations of statistical methods (the mathematical principles that underlie the methods) and the application of those methods. It is unlike similar courses in the emphasis it places on context. Methodological approaches will be motivated using applications from environmental science and management. With that as background, we will be able to more meaningfully study the principles, theory and foundations of the methods, including important theorems and proofs. The end result will be that you will possess i) a more complete understanding of assumptions made in deriving methods (and therefore the limitations of those methods) and ii) a better ability to extend and adapt methods as particular problems require it. An early example of this is the emphasis placed on randomization theory as it leads us to proper approaches for data collection. A second notable difference between this and similar courses is the emphasis on regression modeling for description and prediction using observational data as opposed to the confirmatory objectives of analysis of variance for designed experiments. We will cover regression very early in the course as a means of describing bivariate data and return to the topic in more detail once we have established the foundational principles that underlie our ability to do more than describe with regression. Reports on studies applying statistical methods abound in the popular press, including newspapers. We will draw on such studies regularly to initially illustrate proper, and often, unfortunately, improper application of methodology and the drawing of conclusions; we can then move on to the more complex challenges we face with data from the fields of environmental science and management.

ESPM 3031 Applied Global Positioning Systems for Geographic Information Systems
A-F only, 3 credit(s); Intro GIS course, jr or sr

Instructor: Jenks, Andrew Carl

Description: GPS principles, operations, techniques to improve accuracy. Datum, projections, and coordinate systems. Differential correction, accuracy assessments discussed/applied in lab exercises. Code/carrier phase GPS used in exercises. GPS handheld units, PDA based ArcPad/GPS equipment. Transferring field data to/from desktop systems, integrating GPS data with GIS.

ESPM 3111 Hydrology and Water Quality Field Methods
A-F only, 3 credit(s); 4061 or EEB 4601 or GEO 4601 or FR 3114

Instructor: Magner, Joe A

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: 20% Lecture, 50% Field Trips, 30% Guest Speakers.

Grading: 35% final exam, 20% reports/papers, 35% quizzes, 10% attendance.

Exam Format: Take-home, problem solving

ESPM 3131 Environmental Physics
A-F only, 3 credit(s);

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 Writing Intensive

Instructor: Nelson, Kristen C.

Description: Negotiation of natural resource management issues. Use of collaborative planning. Case study approach to conflict management, strategic planning, and building leadership qualities. Emphasizes analytical concepts, techniques, and skills.

ESPM 3211 Survey, Measurement, and Modeling for Environmental Analysis
3 credit(s); [MATH 1031 or MATH 1051], [3012 or FW 4001 or STAT 3011 or SOC 3811], computer competency

Instructor: Ek, Alan Ryan

Description: Introduction to survey, measurement, and modeling concepts/methods for study of natural resources and environmental issues. Emphasizes survey design for data collection, estimation, and analysis for issues encompassing land, water, air, vegetation, animal, soil, and human/social variables.

Style: 60% Lecture, 20% Discussion, 10% Small Group Activities, 5% Field Trips, 5% Guest Speakers.

Grading: 45% quizzes, 45% written homework, 10% class participation.

ESPM 3211 Survey, Measurement, and Modeling for Environmental Analysis
ESPM 3221 Soil Conservation and Land-Use Management
3 credit(s);
Instructor: Wheeler, Daniel B
Description: Student may contact the instructor or department for information.

ESPM 3241W Natural Resource and Environmental Policy
3 credit(s); Credit will not be granted if credit has been received for: ESPM 5241; Meets CLE req of Civic Life and Ethics; meets CLE req of Social Sciences; 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 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 accretion 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
3 credit(s); Credit will not be granted if credit has been received for: ESPM 5575;
Instructor: Galatowitsch, Susan M
Description: Student may contact the instructor or department for information.

ESPM 3601 Sustainable Housing--Community, Environment, and Technology
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: HSG 3482; Meets CLE req of Technology and Society
Instructor: Seavey, Robert Thomas
Description: Perhaps you’ve noticed the high tech house on campus across from the Bell Museum. Will all housing be built with similar technologies in the future? Should it? Perhaps you’ve been in a neighborhood and wondered whether the residents ever see each other. How do housing practices and the choices we make about housing resources affect a sense of community? And what about the new and incredibly efficient but expensive LED light bulbs: are they worth it? As population continues to grow and as environmental issues become more pressing, it has become increasingly clear that some housing practices and technologies are more sustainable than others, and in this course you will learn about the challenges and choices we all face in creating and maintaining housing. Historically, we have mostly allowed people to do what they want on their own property, and to build without much thought to how natural events impact communities, but does this freedom carry an unsustainable cost to the surrounding environment, and to our communities? Housing is a basic necessity, and the knowledge you gain in this course is something you will use for the rest of your life.

ESPM 3602 Regulations and Corporate Environmental Management
A-F only, 3 credit(s); APEC 1101 or ECON 1101 or 3261WCredit 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; Meets CLE req of Technology and Society
Instructor: Barney, Brett M
Description: The course covers a broad range of topics related to recycling and natural resource utilization. We begin by reviewing the history of waste management and reuse as it developed into recycling efforts. Specific recycled materials studied include aluminum, steel, glass, paper and plastics. We also look at the roles humans play in waste management and resource management strategies, including personal choices, education and decision making related to economics and political or personal philosophies. Finally, we review the potential consequences of poor waste or resource management strategies on the environment, public health and energy consumption, and places where recycling is improving versus places where we, as a society, continue to fail.
Style: 50% Lecture, 20% Film/Video, 20% Discussion, 10% Web Based.
Grading: 40% mid exam, 20% final exam, 20% reports/papers, 15% written homework, 5% attendance. Three exams throughout the semester, equally weighted for 20% each, including the final exam.

ESPM 3607 Natural Resources Consumption and Sustainability
A-F only, 3 credit(s); Meets CLE req of Global Perspectives
Instructor: Howe, Jeffrey L
Description: Student may contact the instructor or department for information.

ESPM 3656 Composting and Organics Utilization
A-F only, 3 credit(s);
Instructor: Halbach, Thomas R.
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: 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); Meets CLE req of Writing Intensive
Instructor: Ballen, Karen G
Description: Class Room - Biological Sciences 64 ? a room designed for team teaching. Learn about the environmental review process; both at the national and state level - NEPA & MEPA Write actual environmental review documents. Learn the techniques used by consulting firms, local governments and state government that protect the environment when projects are proposed. The course is writing intensive and teams are used for many of the course projects. This course can prepare you for actual positions in the environmental review field.

ESPM 4021W Problem Solving: Environmental Review
4 credit(s); Meets CLE req of Writing Intensive
Instructor: Nater, Ed
Description: Class Room - Biological Sciences 64 ? a room designed for team teaching. Learn about the environmental review process; both at the national and state level - NEPA & MEPA Write actual environmental review documents. Learn the techniques used by consulting firms, local governments and state government that protect the environment when projects are proposed. The course is writing intensive and teams are used for many of the course projects. This course can prepare you for actual positions in the environmental review field.

ESPM 4093 Directed Study
1-7 credit(s), max credits 20, 20 completions allowed;
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;
Instructor: Lamb, John A
Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study
1-7 credit(s), max credits 20, 20 completions allowed;
Instructor: Rosen, Carl Jay
Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study
1-7 credit(s), max credits 20, 20 completions allowed;
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;
Instructor: Bleser, Claire Serieyssol
Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study
1-7 credit(s), max credits 20, 20 completions allowed;
Instructor: Griffis, Timothy John
Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study
1-7 credit(s), max credits 20, 20 completions allowed;
Instructor: Becker, Dennis R
Description: Student may contact the instructor or department for information.

ESPM 4093 Directed Study
1-7 credit(s), max credits 20, 20 completions allowed;
Instructor: Twine, Tracy E
Description: Student may contact the instructor or department for information.

ESPM 4094 Directed Research
1-7 credit(s), max credits 7, 7 completions allowed;
Instructor: Nelson, Kristen C.
Description: Student may contact the instructor or department for information.

ESPM 4094 Directed Research
1-7 credit(s), max credits 7, 7 completions allowed;
Instructor: Rosen, Carl Jay
Description: Student may contact the instructor or department for information.

ESPM 4094 Directed Research
1-7 credit(s), max credits 7, 7 completions allowed;
Instructor: Becker, Dennis R
Description: Student may contact the instructor or department for information.

ESPM 4096 Professional Experience Program: Internship
A-F only, 1 credit(s), max credits 6, 6 completions allowed;
Instructor: Allan, Deborah L
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); 3241 or instr consent Credit will not be granted if credit has been received for: ESPM 5256;
Instructor: Reuther, Kevin S
Description: Student may contact the instructor or department for information.
ESPM 5031 Applied Global Positioning Systems for Geographic Information Systems
A-F only, 3 credit(s); 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: GPS principles, operations, techniques to improve accuracy. Datum, projections, and coordinate systems. Differential correction, accuracy assessments discussed/applied in lab exercises. Code/crrier phase GPS used in exercises. GPS handheld units, PDA based ArcPad/GPS equipment. Transferring field data to/from desktop systems, integrating GPS data with GIS.

ESPM 5111 Hydrology and Water Quality Field Methods
A-F only, 3 credit(s); Grad student or instr consent
Credit will not be granted if credit has been received for: ESPM 3111;
Instructor: Magner, Joe A
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); Grad or instr consent
Credit will not be granted if credit has been received for: ESPM 3202W;
Instructor: Nelson, Kristen C.
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 accretion 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); 3241, [sr or grad student] Credit will not be granted if credit has been received for: ESPM 4256;
Instructor: Reuther, Kevin S
Description: Student may contact the instructor or department for information.

ESPM 5575 Wetlands
3 credit(s); 3575, [sr or grad student or instr consent] Credit will not be granted if credit has been received for:
ESPM 3575;
Instructor: Galatowitsch, Susan M
Description: Student may contact the instructor or department for information.

ESPM 5601 Principles of Waste Management
A-F only, 3 credit(s);
Instructor: Halbach, Thomas R.
Description: Student may contact the instructor or department for information.

ESPM 5602 Regulations and Corporate Environmental Management
A-F only, 3 credit(s); APEC 1101 or ECON 1101 Credit will not be granted if credit has been received for: ESPM 3602;
Instructor: STAFF
Description: Students will learn the basic principles and evolution of environmental regulatory development and implementation at U.S. national, state, and local levels as well as some introduction to international regulations. The course will emphasize the perspectives of the various stakeholders concerned with regulatory and non-regulatory responses to the perceived threats to environmental health. In particular, students will gain insight into the issues corporations need to deal with to achieve successful environmental management.

ESPM 5605 Recycling: Extending Raw Materials Supplies
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 3605;
Instructor: Barney, Brett M
Description: Student may contact the instructor or department for information.

ESPM 5703 Agroforestry in Watershed Management
3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: ESPM 3703;
Instructor: Zamora, Diomy Santos
Description: Agroforestry systems and practices are described and discussed as alternatives to more conventional agriculture in developed countries and as viable land use alternatives in poorer countries of the world. Attributes of agroforestry are studied, including a more diversified landscape, greater soil stability, improved water quality, reduced runoff, and improved wildlife habitat. The role of agroforestry in achieving watershed management benefits and ultimately sustainable development is discussed. Examples from North America and from other parts of the world are presented to emphasize agroforestry applications in both temperate and tropical climates. Lectures are mixed with active discussions. Students are required to develop and present a paper on an agroforestry topic.
Style: 50% Lecture, 50% Discussion.
Grading: 60% reports/papers, 10% special projects, 10% in-class presentation, 20% class participation.

ESPM 5811 Environmental Interpretation
A-F only, 3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: ESPM 4811;
Instructor: Carlson PhD, Stephan Paul

Experimental and Clinical Pharmacology  7-159 WDH

ECP 8100 Seminar
ECP 8430 Advances in Pharmacometrics Modeling and Simulation
1 credit(s), max credits 8, 6 completions allowed;
Instructor: Lamba, Jatinder 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, 6 completions allowed;
Instructor: Straka, Robert J
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: Johnson PhD, L'Aurelle Anna Lee
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: Marino, Susan Ellis
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Jacobson, Pamala Ann
Description: Student may contact the instructor or department for information.

ECP 8993 Directed Study in Experimental and Clinical Pharmacology
1-4 credit(s), max credits 4;
Instructor: Noreddin PhD, Ayman M
Description: Student may contact the instructor or department for information.

Family Social Science

FSoS 1101 Intimate Relationships
4 credit(s); Meets CLE req of Social Sciences
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 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 1201 Human Development in Families: Lifespan
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Hemesath, Karla
Description: This course provides a survey of human development in a family context while emphasizing the role of diversity in shaping family environments. Using life course theory and human development theories, the course addresses the interlocking paths of individual and family development, beginning with birth and continuing through the life cycle. It addresses the basic processes involved in physical, cognitive, language, social, and personality development and how they are interrelated. It interweaves the ways in which historical, social, and cultural factors, including ethnicity, gender, class and sexual orientation, influence family context, which in turn, influences individual development. The course is strongly grounded in theory and research, but also explores how theory and research findings are applied to everyday lives. Class lectures and discussions will not simply repeat the material in the textbook or readings. We will use class time to go beyond the readings, focusing on specific issues about families and development and exploring points of current interest and controversy. We will also examine social science data on current issues in development to understand how theories are applied in developmental research. Students will work individually and in small groups to evaluate findings in developmental research, and to apply a developmental lifespan perspective to major issues in today's society. This course is designed for undergraduates who seek a broad introduction to human development in family contexts across the entire lifespan. It is especially relevant for students interested in human services career paths. This course fulfills liberal education requirements for the Social Science core and the Diversity and Social Justice theme.

FSoS 1301 Cash or Credit: You Need to Know
A-F only, 1 credit(s);
Instructor: Jones, Jane Elizabeth
Description: Student may contact the instructor or department for information.

FSoS 2101 Preparation for Working With Families
A-F only, 2 credit(s);
Instructor: Goodman, William Joseph
Description: The essential components of this course are the reflection and development of learners in helping relationships, critical thinking skills (Bloom Taxonomy) for practicing thinkers, and advancement of written and multimodal literacy. To review course requirements, goals and objectives, and additional information about this course, learners are encouraged to view the syllabus on the WEB.
Style: 20% Lecture, 40% Discussion, 20% Laboratory.
Grading: PLEASE NOTE that this course uses Contract Grading

FSoS 2103 Family Policy
3 credit(s);
Instructor: 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: 35% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 26% reports/papers, 30% special projects, 13% quizzes, 16% written homework, 10% class participation.

FSoS 2105 Methods in Family Research
3 credit(s); 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;
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);
Instructor: Solheim PhD, Catherine Ann
Description: The importance of financial management is recognized for its major impact on quality of life for individuals and families. This course focuses on personal and family finances, not corporate or government finances. College students’ unique financial challenges and their related decisions will be considered as they impact credit ratings and debt accumulation, two areas in which less than optimal decision-making often results in long-term financial stress.
Style: 20% Lecture, 5% Film/Video, 15% Discussion, 30% Small Group Activities, 5% Guest Speakers, 25% Web Based. Team-based learning in active learning classroom; students at tables - interact in teams of 3 to solve problems, apply course concepts, discuss. Attendance required for successful course completion
Grading: 25% final exam, 27% special projects, 5% quizzes, 25% additional semester exams, 5% class participation, 13% problem solving. Class participation = on-line discussions Three exams plus comprehensive final exam Problem solving = case studies Special project = personal financial planner
Exam Format: Multiple choice

FSoS 3102 Family Systems and Diversity

3 credit(s); At least soph or instr consent Credit will not be granted if credit has been received for: FSOS 5101; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
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, 25% Small Group Activities.
Grading: 26% mid exam, 26% final exam, 28% reports/papers, 13% quizzes, 6% written homework.

FSoS 3102 Family Systems and Diversity

3 credit(s); At least soph or instr consent Credit will not be granted if credit has been received for: FSOS 5101; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Newell, Jane E.
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 also 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: 25% Lecture, 5% Film/Video, 30% Discussion, 10% Small Group Activities, 15% Student Presentation, 15% Guest Speakers.
Grading: 34% final exam, 19% special projects, 17% quizzes, 14% journal, 9% reflection paper, 7% class participation. Extra credit up to 20 points is possible
Exam Format: Three quizzes containing multiple choice and essay. Lowest score is dropped. Final exam is cumulative consisting of multiple choice and essay.

FSoS 3104 Global and Diverse Families

3 credit(s); at least Soph or instr consent Credit will not be granted if credit has been received for: FSOS 4102; Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: Solheim PhD, Catherine Ann
Description: ***Satisfies CLE Social Sciences Global Perspectives Theme ***Global and Diverse Families is a course that focuses on family dynamics of various racial/ethnic populations across the world in the contexts of global economic, political and social processes. ***The course explores the differences of etic/emic perspectives and insider/outside methodologies to study global and culturally diverse family systems. Using a human ecological theoretical lens, learners examine and understand the interdependence of family, kin, racial, cultural, class, communal, educational, social, religious, political and economic systems within and across countries. ***Students learn to recognize personal, social, cultural, mass media, and other barriers to understanding global family lives. ***The course also creates learner awareness of "isms" (racism, sexism, ethnocentrism, ageism, heterosexism), privilege, discrimination, obliviousness and ignorance and how these dynamics manifest within and across various cultures and countries.
Style: 40% Discussion, 20% Small Group Activities, 20% Guest Speakers, 20% Service Learning. Films, reading, service-learning experiences and guest speakers provide the basis for discussion
Grading: 20% final exam, 25% special projects, 25% journal, 30% class participation. Attendance is mandatory as much of the learning and evaluation of learning occurs through class discussion and personal/group reflection
Exam Format: Essay

FSoS 3104 Global and Diverse Families
3 credit(s); at least Soph or instr consent Credit will not be granted if credit has been received for: FSOS 4102; Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: Xiong PhD, Zha Blong
Description: This course focuses on family dynamics of various racial/ethnic populations across the world, including the United States, in the contexts of global economic, political and socio-cultural processes. The course introduces students to a variety of theoretical frameworks (i.e., cultural variant vs. cultural deviant, family ecological) to question, examine, and understand the interdependence of family, kin, racial, cultural, class, communal, educational, social, religious, political and economic systems within and across countries. In addition, it also helps students to recognize personal, social, cultural, mass media, and other barriers to understand and work with global and diverse families. Course Objectives/Goals: 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.
Style: 50% Lecture, 15% Film/Video, 10% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.
Grading: 14% mid exam, 14% final exam, 21% reports/papers, 7% quizzes, 28% additional semester exams, 6% attendance, 10% reflection paper. Extra credit assignments worth up to 20 points will be assigned to students to complete throughout the semester.
Exam Format: All exams include multiple choice and true/false items only.

FSoS 3191 Independent Study in Family Social Science
1-5 credit(s), max credits 12, 12 completions allowed;
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 3426 Alcohol and Drugs: Families and Culture
3 credit(s); Credit will not be granted if credit has been received for: FSOS 5426;
Instructor: Thomas, Andrea Queen
Description: Student may contact the instructor or department for information.

FSoS 3429 Counseling Skills Practicum I
3 credit(s); Credit will not be granted if credit has been received for: FSOS 5429;
Instructor: 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
FSoS 4101 Sexuality and Gender in Families and Close Relationships
3 credit(s);
Instructor: Meyer, Cynthia Jo
Description: Sexuality and Gender in Families and Close Relationships provides students an opportunity to learn about current research in the field of sexuality; develop comfort applying this information in professional settings; utilize and develop critical thinking skills to examine evidence and biases in the field of sexual science; and to clarify and confirm sexual values as well as understand the impact these values have on one's personal and professional relationships. A variety of topics will be covered including family communication and sexuality education, body image, gender development and development of gender roles, sexuality research, developing healthy sexuality in children, adolescent sexuality, attraction and intimacy, mate selection and other sexuality related topics of importance to relationships and families.
Style: 60% Lecture, 30% Discussion, small group presentations and film
Grading: 30% mid exam, 30% final exam, 20% reports/papers, 10% special projects, 10% class participation.
Exam Format: multiple choice

FSoS 4104W Family Psychology
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Syvertsen, Amy Kay
Description: Family psychology is founded on the principles of systems theory with the interpersonal system of the family, broadly defined, as the focus of assessment, intervention, and research. Particular attention is paid to understanding the patterns and processes that unfold in interpersonal and family relationships. Using a family systems lens, this course will survey diverse aspects of family life including models of family functioning, family relationship issues, and social, historical, and socioeconomic contexts. This is a writing intensive course. Family psychology takes place in a landscape of written language. Family clinicians use their knowledge of family theory and research to write descriptive and evaluative case reports. Family educators synthesize and translate research for practical use by parents, teachers, and policy makers. Family social scientists produce research reports to move the field forward, informing practice and family life. In each situation, writing is tailored to an intended audience for a specific purpose. This course has a variety of formal and informal writing assignments. Assignments are based on the premise that writing is thinking on paper, writing is a process that requires feedback and revision, and writing is both discipline and audience specific. At the completion of this course, you should be able to: ? Use theory to analyze families and family relationships ? Describe how the study of family psychology differs from individual psychology ? Identify and write critically about family systems and other relational dynamics ? Synthesize theory and scholarly evidence to defend a thesis and draw conclusions ? Recognize and appreciate the ways diversity affects family psychology research and clinical practice.
Style: 30% Lecture, 5% Film/Video, 20% Discussion, 30% Small Group Activities, 10% Student Presentation, 5% Guest Speakers.
Grading: 20% mid exam, 20% final exam, 30% reports/papers, 20% in-class presentation, 10% class participation.

FSoS 4152 Gay, Lesbian, and Bisexual People in Families
3 credit(s);
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 perspectives 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 credit(s); Meets CLE req of 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
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 credit(s);
**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 examining 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;
**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;
**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 12, 3 completions allowed;
**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;
**Instructor:** Goodman,William Joseph
**Description:** This course consists of 180 hours of directed paraprofessional work experience related to the learners' 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 learners with an experience that best advances their thinking and working. This capstone course is further designed to integrate the whole of a students undergraduate work by requiring learners to complete a professional
FSoS 5014 Quantitative Family Research Methods I
3 credit(s);
Instructor: Von Korff, Lynn
Description: Family research methods, issues associated with multiple levels of analysis. Conducting family-focused data analyses using basic/intermediate methods (through ANOVA and multiple regression), including power analysis. By the end of the semester, students will... *understand the special issues associated with family and relationship research, such as lack of independence of observations and multiple levels of analysis *evaluate a variety of quantitative family research articles published in journals such as the Journal of Marriage and Family, with an emphasis on understanding methods and results sections *formulate family related research questions in order to work with an existing quantitative data set *use SPSS successfully in data analysis (through FSoS 5015 1 credit 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
Style: 25% Lecture, 25% Discussion, 25% Small Group Activities, 10% Demonstration, 10% Guest Speakers, 5% Web Based.
Grading: 50% reports/papers, 25% special projects, 15% written homework, 10% class participation.

FSoS 5015 Family Research Laboratory
S-N only, 1 credit(s);
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.
Style: 15% Discussion, 85% Laboratory.
Grading: 10% attendance, 10% class participation, 55% laboratory evaluation, 25% problem solving.

FSoS 5150 Special Topics in Family Social Science: Healing Historical Conflicts: Implications
3 credit(s), max credits 24, 6 completions allowed;
Instructor: Axtell, Sara Ann
Description: Social service, higher education, health care, and educational institutions are beginning to place increased emphasis on engaging the communities that they serve. However, community engagement initiatives may fail to bring the anticipated benefits if there is inadequate attention to the history of the community-institution relationship, and the unintended negative impacts that institutions may have on families and communities. Many of the historical and current conflicts between institutions and communities are also inter-cultural conflicts that require inter-cultural healing processes. This course will examine some of the historical and cultural contexts for community-institution relationships in the United States, and the impact this history has on our current attempts to engage with communities. Students will have the opportunity to talk to members of partnerships who are working to heal the relationships between communities and institutions, and begin to develop skills for participating in community-institution healing. Learning Objectives: 1. Describe how cultures operate as systems. 2. Describe the culture operating within U.S. institutions. 3. Discuss how modern European American culture differs from indigenous and other traditional cultures. 4. Develop skills for cultural self-study. 5. Give examples of how institutions may undermine the functioning of a community. 6. Learn respectfully from elders and other cultural knowledge holders. 7. Describe approaches to healing the relationships between communities and institutions. 8. Discuss applications of community-institution healing to your professional work. 9. Articulate principles of community-institution healing.
Style: 50% Discussion, 25% Small Group Activities, 25% Guest Speakers. The class will meet off-campus, at the Cultural Wellness Center, located at 1527 E. Lake St. in Minneapolis.
Grading: 28% reports/papers, 52% reflection paper, 20% in-class presentation.

FSoS 5193 Directed Study in Family Social Science
1-6 credit(s), max credits 6, 1 completion allowed;
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: Thomas, Andrea Queen
Description: Student may contact the instructor or department for information.

FSoS 5429 Counseling Skills Practicum I
3 credit(s); Credit will not be granted if credit has been received for: FSOS 3429;
Instructor: Meyer, Cynthia Jo
Description: This course is designed to provide students the listening skills necessary to establish a helping relationship and to promote the personal growth and development of people they will see in their future work. It helps students develop skills that are critical in helping other people, including individuals, couples and families. Through class lecture, practice, written exercises, and discussion, this course focuses both on self-awareness about one's desire to help others as well as developing basic skills in helping others.
Style: 50% Lecture, 20% Discussion. skills practice
Grading: 30% final exam, 25% reports/papers, 10% special projects, 15% class participation, 20% other evaluation.
Homework assignments
Exam Format: multiple choice and short essay

FSoS 5937 Parent-Child Interaction
A-F only, 3 credit(s);
Instructor: Cline, Heather Marie
Description: Student may contact the instructor or department for information.

FSoS 5942 Everyday Experiences of Families
A-F only, 2 credit(s);
Instructor: Englund, Lynn A.
Description: This internet-delivered course examines culture and everyday experiences of diverse families. It is relevant to parent education and the professional development of educators and other professionals who interact with families, such as teachers, community and public health professionals and program coordinators. Research/theoretical knowledge woven with observation/personal reflection. Required texts: Olson, D. H., DeFrain, J. D., & Skogrand, L. (2014). Marriages and families: Intimacy, diversity, and strengths (8th ed.) New York: McGraw-Hill. Siegel, D. J., & Hartzell, M. (2013). Parenting from the inside-out: How a deeper self-understanding can help you raise children that thrive. New York: Tarcher/Penguin. The course is presented in eight weekly course modules. Each of the eight modules will begin on a Wednesday and end on a Tuesday (no class interaction will occur March 14-20 during the week of spring break). Students are required to participate in the six live online chats from 7:00-7:45 p.m central time as shown in the schedule below (Spring 2014): Module 1 - begin Wed 02/05, chat Mon 02/10, end Tue 02/11; Module 2 - begin Wed 02/12, chat Mon 02/17, end Tue 02/18; Module 3 - begin Wed 02/19, chat Mon 02/24, end Tue 02/25; Module 4 - begin Wed 02/26, chat 03/03, end Tue 03/04; Module 5 - begin Wed 03/05, chat Mon 03/10, end Tue 03/11; Module 6 - begin Wed 03/12, (spring break 03/16 thru 03/22), chat 03/24, end Tue 03/25; Module 7 - begin Wed 03/26, chat Mon 03/31, end Tue 04/01; Module 8 - begin Wed 04/02, chat Mon 04/07, end Tue 04/08.
Style: 100% Web Based.

FSoS 5943 Parent Learning and Development: Implications for Parent Education
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

FSoS 5946 Assessment and Evaluation in Parent Education
A-F only, 2 credit(s);
Instructor: Walker, Susan K
Description: Student may contact the instructor or department for information.

FSoS 5949 Student Teaching in Parent Education
A-F only, 2 credit(s);
Instructor: Brown, Michael Patrick
Description: Student may contact the instructor or department for information.
FSoS 8003 Current Issues in Family Science
3 credit(s);
Instructor: Solheim PhD, Catherine Ann
Description: Course Objectives 1. To explain the major research findings in a number of prominent areas of family science. 2. To identify what is known with confidence about these areas of research, which findings are more tentative, and where the major gaps lie in the research. 3. To identify current theoretical and methodological issues in contemporary family science. 4. To analyze the strengths and weaknesses in the ways in which family science issues are currently being examined. 5. To identify the contributions of multiple disciplines to family science research.
Style: 60% Discussion, 40% Student Presentation.
Grading: 37% reflection paper, 50% in-class presentation, 13% class participation.

FSoS 8034 Marriage and Family Therapy Supervision
3 credit(s);
Instructor: Harris, Steven Michael
Description: Student may contact the instructor or department for information.

FSoS 8047 Integrative Research Seminar
3 credit(s);
Instructor: Gewirtz, Abigail
Description: Student may contact the instructor or department for information.

FSoS 8151 Preparation for Independent Teaching in Family Studies
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Meyer, Cynthia Jo
Description: Student may contact the instructor or department for information.

FSoS 8193 Directed Study in Family Social Science
1-6 credit(s), max credits 12, 12 completions allowed;
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;
Instructor: Mendenhall PhD, Tai Justin
Description: Student may contact the instructor or department for information.

FSoS 8296 Family Therapy Internship
S-N only, 1-21 credit(s), max credits 21, 1 completion allowed;
Instructor: Harris, Steven Michael
Description: This course is designed to provide you with individual/dyadic and group supervision in addition to the supervision you receive at your clinical placement site. Supervision will consist of bi-weekly individual and group meetings that will include 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.

FSoS 8297 Supervision of Supervision
S-N only, 1-3 credit(s), max credits 12, 12 completions allowed;
Instructor: Harris, Steven Michael
Description: Student may contact the instructor or department for information.

FSoS 8550 Advanced Topics in Family Social Science: Advanced Qualitative Family Research Methods
A-F only, 3 credit(s), max credits 6, 6 completions allowed;
Instructor: Wieling, Elizabeth
Description: Student may contact the instructor or department for information.

FSoS 8755 Master's Paper: Plan B Project
S-N only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: STAFF
Description: Graduate faculty work with students on research for Plan B paper.

FSoS 8794 Directed Research in Family Social Science
Finance

Fina 3001 Finance Fundamentals
A-F only, 3 credit(s); ACCT 2050, OMS 2550 Credit will not be granted if credit has been received for: APEC 3501;
Instructor: Reik, John Willard

Fina 4221 Principles of Corporate Finance
A-F only, 2 credit(s); max credits 4;
Instructor: Legg, Thomas D
Description: Student may contact the instructor or department for information.

Fina 4242W Corporate Investment Decisions
A-F only, 4 credit(s); Meets CLE req of Writing Intensive

Instructor: STAFF

Description: Focuses on efficiently managing working capital and fixed assets. Cases illustrate some of the topics: working capital management, making capital budgeting decisions, targeting/evaluating firm performance, assessing mergers/acquisitions.

Fina 4321 Portfolio Management and Performance Evaluation
A-F only, 2 credit(s);
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 4325 Behavioral Finance
A-F only, 2 credit(s);
Instructor: Yu, Jianfeng
Description: Student may contact the instructor or department for information.

Fina 4329 Security Analysis Capstone
A-F only, 2 credit(s);
Instructor: Friese, Brian J
Description: Student may contact the instructor or department for information.

Fina 4422 Financial Modeling
A-F only, 2 credit(s);
Instructor: Legg, Thomas D
Description: Student may contact the instructor or department for information.

Fina 4422 Financial Modeling
A-F only, 2 credit(s);
Instructor: Singh, Raj
Description: Student may contact the instructor or department for information.

Fina 4522 Options & Derivatives I
A-F only, 2 credit(s); 3001, 4121, 4321 (can be concurrent), CSOM major
Credit will not be granted if credit has been received for: FINA 4523;
Instructor: Graveline, Jeremy J
Description: Student may contact the instructor or department for information.

Fina 4529 Derivatives II Capstone
A-F only, 2 credit(s);
Instructor: Ai, Hengjie
Description: Student may contact the instructor or department for information.

Fina 4621 The Global Economy (Macro)
A-F only, 2 credit(s);
Instructor: Bazdresch, Santiago
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
A-F only, 2 credit(s);
Instructor: Le, Thanh Trung
Description: Student may contact the instructor or department for information.

Fina 6121 Debt Markets, Interest Rates, and Hedging
A-F only, 2 credit(s);
Instructor: STAFF

Fina 6222 Mergers and Acquisitions
A-F only, 2 credit(s);
Instructor: Caruso,Gerald M
Description: Student may contact the instructor or department for information.

Fina 6241 Corporate Finance Analysis and Decisions
A-F only, 4 credit(s);
Instructor: STAFF
Description: Theoretical/applied understanding of corporate financial decisions. Adjusted present value, economic value added options. Impact of financing decisions on real asset valuation, managerial incentives, corporate strategy.

Fina 6242 Advanced Corporate Finance Analysis and Decisions
A-F only, 4 credit(s);
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 6322 Financial Modeling
A-F only, 2 credit(s);
Instructor: Nantell,Timothy J
Description: The ability to build, operate and interpret financial models has become an almost universal job requirement for all MBA students. (See student and professional quotes below.) This course has been redesigned to appeal to MBA students with a wide range of career interests. Corporate finance, marketing, consulting, supply chain, IT and entrepreneurial students will find the course useful, as will students with career interests in the financial services industry (e.g. credit analysts, equity analysts, investment bankers, etc.). Students build a financial model on their own, they learn to use a fully developed financial model and they use these models repeatedly to evaluate and plan performance, to estimate value added from projects and strategies and to estimate the value of securities. Relative to other finance courses, this course emphasizes building and interpreting financial models, plowing little new ground in the way of finance theory and concepts. On the other hand, one objective of this course is to reinforce finance concepts by having students build them into models and by having students interpret the results produced by the models. The ability of students completing this course to build and work with comprehensive financial models should allow them to claim financial modeling and financial analysis capabilities as among their strengths, regardless of the functional career path they have chosen. This course has been designed to both stand on its own and to serve as the first half of a four-credit two-course sequence on financial modeling. The second half of the sequence, Fina 6323, Advanced Financial Modeling, is offered in the Fall semester and focuses on advanced financial performance models, equity security analysis models, including relative valuation models, credit analysis models and mergers and acquisition models. Upon completion of this two-course sequence, students will know how to use standard financial models and how to build financial performance and valuation models for any financial analysis situation they might come across. Bottom line is if you can build a cash flow model from scratch, you will understand how everything in a P&L is linked. This allows you to easily explain to both finance and non-finance people what is going on (very important in the corporate finance world). Modeling is the one skill that can really set you apart from your peers and help make you look a lot smarter than you may even be! all the recruiters seem to care about is whether I can build and maintain a financial model? Financial models are not about absolute values; they are about relationships. A good financial model demonstrates the relationships and the business tradeoffs that compose the profitability potential of the business idea. If you understand the relationships, the drivers of revenue, drivers of cost, and the critical success factors, you understand the core of the business.
Style: 20% Lecture, 40% Discussion, 40% Demonstration.
Grading: 20% final exam, 20% class participation, 60% other evaluation. Students are asked to come to class having attempted to conclude modeling exercises. The structure of and lessons learned from these models are discussed in class. Five of these modeling exercises are graded, each worth 12%.
Exam Format: A final modeling exercise -- take home.

Fina 6324 Securitization Markets
A-F only, 2 credit(s);
Instructor: Redfield,Corey Blair
Description: Student may contact the instructor or department for information.
Fina 6325 Behavioral Finance
A-F only, 2 credit(s);
Instructor: Yu, Jianfeng
Description: Student may contact the instructor or department for information.

Fina 6341 World Economy
A-F only, 4 credit(s);
Instructor: Le, Thanh Trung
Description: Student may contact the instructor or department for information.

Fina 6529 Advanced Topics in Fixed Income and Derivatives
A-F only, 2 credit(s);
Instructor: Ai, Hengjie
Description: Student may contact the instructor or department for information.

Fina 6621 International Financial Management
A-F only, 2 credit(s);
Instructor: Zaman, Ashraf Al
Description: Student may contact the instructor or department for information.

Fina 6801 Finance Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: STAFF
Description: Independent Study

Fina 8822 Empirical Methods in Finance
2 credit(s);
Instructor: Belo, Frederico
Description: Student may contact the instructor or department for information.

Fina 8823 Empirical Corporate Finance
2 credit(s);
Instructor: STAFF
Description: Current empirical research on corporate finance. Mergers/acquisitions, equity offerings, event studies, tests of market efficiency, impact of corporate governance, compensation policies, initial public offerings.

Fina 8892 Independent Study in Finance
1-8 credit(s), max credits 16, 16 completions allowed;
Instructor: STAFF
Description: Problems or developments of special interest to the student.

Fina 8894 Directed Research in Finance
1-8 credit(s), max credits 16, 16 completions allowed;
Instructor: STAFF
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);
Instructor: Taipale, Kaisa Elina-Maria
Description: Student may contact the instructor or department for information.

FM 5012 Mathematical Background for Finance II
4 credit(s);
Instructor: Bemis, Christopher Joseph
Description: Student may contact the instructor or department for information.
FM 5022 Mathematical Theory Applied to Finance II
- 4 credit(s);
- 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);
- Instructor: Vinar, Jason Thomas
- Description: Student may contact the instructor or department for information.

FM 5092 Computation, Algorithms, and Coding in Finance II
- 4 credit(s);
- Instructor: Prouty, Christopher William
- Description: Student may contact the instructor or department for information.

Finnish 320 Folwell Hall

Fin 1002 Beginning Finnish
- 5 credit(s); 1001 Credit will not be granted if credit has been received for: FIN 4002;
- Instructor: Karvonen, Daniel
- Description: FIN 1002/4002 is the second semester of Beginning Finnish, and continues where FIN 1001/4001 left off. The textbook for the course is "Suomen mestari 2". 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 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.
- Exam Format: Short answer, essay, matching

Fin 1004 Intermediate Finnish
- 5 credit(s); 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 "Suomea paremmin" (chapters 6-10). Students will continue to learn both the written and spoken varieties of Finnish. Authentic materials reflecting Finnish culture (e.g., songs, movies, TV news broadcasts, newspaper articles, etc.) will also be used. Much of class time will focus on interactive communicative activities designed to activate the material learned in class, with students working in groups or pairs. This course will prepare students to take the Language Proficiency Exam (LPE), which will be taken near the end of the course. Qualified students may register for this course under the 4004 designator (see below) for 2 credits (and reduced tuition).
- Style: 20% Lecture. Interactive exercises
- Grading: 18% reports/papers, 14% quizzes, 5% in-class presentation, 30% class participation, 21% other evaluation.
- Exam Format: Short answer, essay, matching

Fin 1004 Intermediate Finnish
- 5 credit(s); 1003 Credit will not be granted if credit has been received for: FIN 4004;
- Instructor: Soikkeli, Katja Maria
- 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 "Suomea paremmin" (chapters 6-10). Students will continue to learn both the written and spoken varieties of Finnish. Authentic materials reflecting Finnish culture (e.g., songs, movies, TV news broadcasts, newspaper articles, etc.) will also be used. Much of class time will focus on interactive communicative activities designed to activate the material learned in class, with students working in groups or pairs. This course will prepare students to take the Language Proficiency Exam (LPE), which will be taken near the end of the course. Qualified students may register for this course under the 4004 designator (see below) for 2 credits (and reduced tuition).
- Style: 20% Lecture. Interactive exercises
- Grading: 18% reports/papers, 14% quizzes, 5% in-class presentation, 30% class participation, 21% other evaluation.
- Exam Format: Short answer, essay, matching
Fin 3012 Advanced Finnish
3 credit(s); 3011 or 4011 Credit will not be granted if credit has been received for: FIN 4012;
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); 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: FIN 1002/4002 is the second semester of Beginning Finnish, and continues where FIN 1001/4001 left off. The textbook for the course is "Suomen mestari 2". 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 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 4004 Intermediate Finnish
2 credit(s); 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 "Suomea paremmin" (chapters 6-10). Students will continue to learn both the written and spoken varieties of Finnish. Authentic materials reflecting Finnish culture (e.g., songs, movies, TV news broadcasts, newspaper articles, etc.) will also be used. Much of class time will focus on interactive communicative activities designed to activate the material learned in class, with students working in groups or pairs. This course will prepare students to take the Language Proficiency Exam (LPE), which will be taken near the end of the course. Qualified students may register for this course under the 4004 designator (see below) for 2 credits (and reduced tuition).
Style: 20% Lecture. Interactive exercises
Grading: 18% reports/papers, 14% quizzes, 5% in-class presentation, 30% class participation, 21% other evaluation. tests, 12% oral interviews
Exam Format: Short answer, essay, matching

Fin 4004 Intermediate Finnish
2 credit(s); 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: Soikkeli, Katja Maria
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 "Suomea paremmin" (chapters 6-10). Students will continue to learn both the written and spoken varieties of Finnish. Authentic materials reflecting Finnish culture (e.g., songs, movies, TV news broadcasts, newspaper articles, etc.) will also be used. Much of class time will focus on interactive communicative activities designed to activate the material learned in class, with students working in groups or pairs. This course will prepare students to take the Language Proficiency Exam (LPE), which will be taken near the end of the course. Qualified students may register for this course under the 4004 designator (see below) for 2 credits (and reduced tuition).
Style: 20% Lecture. Interactive exercises
Grading: 18% reports/papers, 14% quizzes, 5% in-class presentation, 30% class participation, 21% other evaluation. tests, 12% oral interviews
Exam Format: Short answer, essay, matching

Fin 4012 Advanced Finnish
Fisheries and Wildlife  200 Hodson Hall

FW 2003 Introduction to Marine Biology
3 credit(s);
Instructor: Newman, Raymond M
Description: This course provides an introduction to the major themes of life in the oceans. After an overview of the origins and the physical, chemical and geological nature of the oceans, we will cover the diversity, biology and ecology of the organisms found in estuarine, coastal, open and deep seas. We will then look the ecology of these habitats, considering nutrients, energy flow and community and ecosystem responses and the linkage and interaction among the environments. Finally the reliance and effects of humans on these systems will be covered. Selected topics in the study of marine fishes, marine mammals, global change, marine protection and other topics of special interest to biology, conservation and society will be addressed in more detail. The aim of the course is to provide an introduction to the discipline for those who wish pursue a career in aquatic systems and to produce well-informed global citizens who understand the basic biology and ecology of the oceans well enough to contribute to the long-term well being of society and the plant through vocation or avocation.
Style: 65% Lecture, 10% Film/Video, 10% Discussion, 5% Student Presentation, 10% Guest Speakers.
Grading: 25% mid exam, 25% final exam, 15% reports/papers, 25% quizzes, 10% class participation.
Exam Format: Mixed - true/false, multiple choice, fill in figure or diagram, short answer, short essay.

FW 3565 Fisheries and Wildlife Ecology and Management: Field Trip
A-F only, 2 credit(s);
Instructor: Rentz, Michael Stephen
Description: Student may contact the instructor or department for information.

FW 4101 Herpetology
4 credit(s);
Instructor: Kozak, Kenneth H.
Description: Student may contact the instructor or department for information.

FW 4102 Principles of Conservation Biology
3 credit(s); Meets CLE req of Environment
Instructor: Oberhauser, Karen S
Description:

FW 4103 Principles of Wildlife Management
3 credit(s);
Instructor: Stapleton, Seth P
Description: Student may contact the instructor or department for information.

FW 4291 Independent Study: Fisheries
1-5 credit(s), max credits 15, 3 completions allowed;
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;
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 5051 Analysis of Populations
FW 5604W Fisheries Ecology and Management
3 credit(s); 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
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: 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: Simons, Andrew M.
Description: Student may contact the instructor or department for information.

FW 8394 Research in Fisheries
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Fulton, David 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: Venturelli, Paul 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;
Instructor: Cuthbert, Francesca J
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Nelson, Kristen C.
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 completion allowed;
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;
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;
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;
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;
Instructor: Gutierrez, Ralph J
Description: Student may contact the instructor or department for information.

FW 8494 Research in Wildlife
FW 8494 Research in Wildlife
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Blair, Robert 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;
Instructor: Johnson, Douglas H
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;
Instructor: Fieberg, John Robert
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;
Instructor: Forester, James Derwin
Description: Student may contact the instructor or department for information.

Food Science and Nutrition 225 Food Science & Nutrition

FScN 1011 Science of Food and Cooking
4 credit(s); Meets CLE req of Physical Sciences
Instructor: Smith, David Eugene
Description: This course examines physical and chemical changes occurring during common food preparation techniques. We will use actual food systems such as souffles, custards, sauces, coffee brewing, and candy making to examine the physics and chemistry of heat transfer, foams, gels, emulsions, extractions, and crystallization. Weekly laboratories will illustrate the impact of physical or chemical changes in a food system on the flavor, texture and appearance of the food. You must come to the lab ready to carefully prepare a specific product that will be shared with others in your lab group. You must take responsibility for working with others in your group to examine all the products, make necessary measurements, and to collaboratively learn the physical science concepts illustrated. As part of a small team, you will design an experiment to test a hypothesis about the behavior of an added/substituted ingredient or a change in a procedure step on the flavor, texture and appearance of a food they prepare. This course is designed for students majoring in non-science-based disciplines that want to explore the physical sciences through foods.
Style: 75% Lecture, 25% Laboratory.
Grading: 40% mid exam, 20% final exam, 30% reports/papers, 10% special projects. Reports are lab group lb reports as is the project.
Exam Format: Multiple choice, fill in the blanks and short answer.

FScN 1013 Dietary Supplements: scientific, regulatory, and cultural aspects
3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Brady, Linda J
Description: The course will cover: 1) Use of dietary supplements in the U.S.; how U.S. public demand drives industry and government. 2) The development and implementation of the law—Dietary Supplements Health and Education Act. 3) DSHEA and "safety testing," and risk assessment: How much safety data is needed before marketing? 4) Ethics of marketing. 5) FTC responsibilities and the ethics of advertising. 6) Other cultures as sources of supplements; transference of use between cultures. 7) Issues and ethics of intellectual property rights of indigenous cultures. 8) Rational use of dietary supplements for health and sports performance; ethical decisions in use for athletic performance. 9) Use of supplements for weight loss. A UM Connect audio video orientation is provided to explain the syllabus and assignment submission and academic integrity; registered students will receive information on orientation about a week before classes start. For each weekly unit, an online UM Connect presentation of the week's power point is also available to complement weekly readings. Students critically evaluate information on supplements and submit weekly homework and critical thinking questions online via the class website; these are graded online and returned. This course functions best for students who can manage their time effectively and are comfortable with a mix of factual questions and "thought" questions (critical thinking) that are more open ended and require students to move beyond the readings into higher level thinking. There is no textbook; readings are online.
Style: 100% Web Based. totally web based
Grading: 50% written homework, 50% reflection paper. homework and critical thinking (reflection) questions
Exam Format: Homework and critical thinking are in multiple parts, with short answers of a paragraph or two for each part

FScN 1090 Topics
FScN 1090 Topics
1 credit(s), max credits 4, 1 completion allowed;
Instructor: Kurzer PhD,Mindy Susan
Description: Student may contact the instructor or department for information.

FScN 1102 Food: Safety, Risks, and Technology
OPT No Aud, 3 credit(s);Meets CLE req of Civic Life and Ethics
Instructor: Labuza PhD,Ted Peter
Description: An 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, Johne’s disease and health claims. The course will emphasize government regulations with respect to adulteration, food and misbranding, as the means for ensuring food safety. Thermal processing, high pressure, and irradiation which will be described as examples of the technologies used in food processing to reduce risk and assure a safe food supply. The CLE Citizenship and Public Ethics theme emphasizes the public policy process, 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);
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. This class is totally online. Power points and UM Connect presentations (narrated powerpoints) for each chapter are posted on the class site. These contain the key points of the chapters and updated information from current events. Students will be evaluated by weekly online chapter quizzes, a diet analysis and questions about their diet analysis, and a final comprehensive exam covering the major themes of the course. 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. Students who learn well alone using text and who need the online flexibility will be best served by this class section. Students who learn best by hearing lectures or interacting with others should consider the other section of the class that meets in person.
Style: 100% Web Based.
Grading: 25% final exam, 50% quizzes, 25% other evaluation. Diet analysis and associated questions
Exam Format: Multiple choice

FScN 2001 Healthy Foods, Healthy Lives: A Food System Approach to Cooking
3 credit(s);
Instructor: Kurzer PhD, Mindy Susan
Description: Lecture: Wed, 9:35-11:30 (Green Hall 110); Labs: Tues (3:30-6:30) OR Wed (3-6) McNeal Hall 126
Course Description: This interdisciplinary course will provide students with the knowledge, critical thinking and technical skills necessary to make food choices based on nutritional, environmental, and local and global societal issues. Students will be challenged to consider their food choices as both influencing and being influenced by larger food system dynamics and to view these issues from multiple perspectives. Through lectures, classroom discussions, and a cooking laboratory, students will learn about the issues from the instructors and expert guest lecturers representing multiple disciplines such as plant, animal and environmental sciences, public health and nutrition, anthropology, geography and sociology, economics and public policy, as well as outside community members. The laboratory will provide students with an opportunity to apply this knowledge to their own food choices and build skills and confidence in food preparation. Assignments will include reading peer-reviewed articles on the topics to be discussed, writing, home meal preparation, as well as small group activities (dinner clubs, online blogs - umncooks.blogspot.com, documented field trips, etc). Through these assignments, students will learn to think critically about our food system and their own food choices, will learn basic cooking skills, and will create resources related to healthy food that will be useful themselves as well as to other university and community members. Students interested in working on food issues have the opportunity to connect with an area non-profit and earn service learning credits (http://www.servicelearning.umn.edu/inf0). For more information about the class or to learn more about enrolling for graduate student independent study or service learning credits, please contact Kris Igo, kigo@umn.edu.

FScN 2021 Introductory Microbiology
A-F only, 4 credit(s);
Instructor: Fink, Ryan Cristiano Aundal
Description: Microbes impact our world in both deadly and life-saving ways: Roles of bacteria, fungi, and viruses as agents of human diseases; in food spoilage and food borne diseases; and in food preservation and health promotion. Preventing plant diseases, food/drug production, cleaning up oil spills. Genetic engineering.

FScN 3301 Food Choices: Healing the Earth, Healing Ourselves
3 credit(s); Jr or sr or grad student
Credit will not be granted if credit has been received for: CSPH 3301;
Instructor: Brady, Linda J
Description: Food production in our current industrial system feeds the world, but at a cost to the environment. In nutrition we often talk about a healthy diet, but only occasionally do we link our food and diet choices to agricultural practices and the health of the planet. This class will link the concepts of human health and planetary health in terms of food. There are no prerequisites to the class, but you should have been exposed to critical reading, writing, and thinking to make your journey through this class more fulfilling. Using the framework of complexity theory and gentle action, topics that we will cover include: human food/nutrition needs and food security, influences on our food choices and decisions, cultural and personal context of food choices, ways that food is produced-farm to fork, especially industrial monoculture, food choices and the earth’s bio diversity, land use, water use and pollution, energy needs, climate change, alternatives-organic and sustainable, fair trade and economic policies and choices, global tradeoffs. Class is totally online, although several videos will be scheduled in the evening for easy student access (students could also view these by purchase or rental). This class works best for students who are self motivated and organized and who are comfortable reading, analyzing, and using data to backup their own opinions.
Style: 100% Web Based.
Grading: 50% written homework, 50% reflection paper. This class works best for students who can read, evaluate, integrate information, then use it to support their own views about the food system.

FScN 3480 Topics in Food Science and Nutrition: Professional Skills in Food Science and Nutrition
1 credit(s), max credits 4, 1 completion allowed;
Instructor: Marion, Corrie Lynn
Description: Student may contact the instructor or department for information.

FScN 3615 Sociocultural Aspects of Food, Nutrition, and Health
A-F only, 3 credit(s);
Instructor: Smith, Chery
Description: Socio-cultural aspects of regional and cultural diversity in food preferences and food behavior, food habits, demographics, lifestyles, food consumption and expenditures. Effect of socio-economic status, religious beliefs, age, and cultural meaning of food on food choices. Students will understand factors that influence eating behavior, particularly how socio-economic status, religious beliefs, age and gender, and ethnicity contribute to it. Additionally, they will be able to discuss how societal values influence eating patterns and contribute to health issues. Lastly, students will be able to describe how social scientists study, describe, and interpret information on dietary patterns through observations and class readings and discussions.

FScN 4121 Food Microbiology
OPT No Aud, 3 credit(s);
Instructor: Diez-Gonzalez, Francisco
FScN 4121 Food Microbiology
OPT No Aud, 3 credit(s);
Instructor: Diez-Gonzalez, Francisco
Description: This course is designed to study the most important microorganisms involved in food-borne disease, and food spoilage, as well as methods for their control and detection. Four major topics are covered: 1) basics of food microbiology 2) foodborne pathogens 3) microbial food spoilage and 4) control of microorganisms in food. Specific topics include: traditional, molecular and rapid methods of detection; applications of microbiology, factors that influence microbial growth; mechanisms and agents (physical, chemical, biological) for food preservation; and characteristics of pathogenic bacteria, molds, protozoa, viruses and prions that may be foodborne. In the laboratory the following subjects will be studied: 1) general microbiological techniques for the cultivation and quantification of food microorganisms, 2) quantification and detection of indicator and spoilage microorganisms, and 3) detection, isolation and identification of foodborne pathogens.
Style: 50% Lecture, 10% Discussion, 30% Laboratory, 5% Small Group Activities, 5% Guest Speakers.
Grading: 16% mid exam, 20% final exam, 20% reports/papers, 10% quizzes, 12% written homework, 10% journal, 8% class participation, 4% laboratory evaluation.

FScN 4291 Independent Study
1-4 credit(s), max credits 4, 1 completion allowed;
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);
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);
Instructor: Smith, David Eugene
Description: This course is a continuation of topics in food processing. This semester, topics will include fluid flow, pumping, heat and mass transfer, thermal processing and case studies.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 30% final exam, 10% quizzes, 30% laboratory evaluation.
Exam Format: Problems and short answers

FScN 4332 Food Processing Operations
A-F only, 3 credit(s);
Instructor: Reineccius, Gary A
Description: This course is a continuation of topics in food processing. This semester, topics will include fluid flow, pumping, heat and mass transfer, thermal processing and case studies.
Style: 50% Lecture, 50% Laboratory.
Grading: 30% mid exam, 30% final exam, 10% quizzes, 30% laboratory evaluation.
Exam Format: Problems and short answers

FScN 4349 Food Science Capstone
A-F only, 2 credit(s);
Instructor: Ismail, Bareaem
Description: Student may contact the instructor or department for information.

FScN 4481 FScN 4481: Sensory Evaluation of Food Quality
A-F only, 1 credit(s);
Instructor: Vickers, Zata M
Description: Student may contact the instructor or department for information.

FScN 4613 Experimental Nutrition
2 credit(s);
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 dietetics and nutrition science majors and beginning nutrition graduate students, although it is appropriate for any student wishing to take a biochemistry-oriented laboratory course. Students must have taken courses in biochemistry and physiology. A course in statistics is highly recommended.

**Style:** 22% Lecture, 3% Film/Video, 70% Laboratory, 5% Web Based.

**Grading:** 20% mid exam, 30% final exam, 40% reports/papers, 10% quizzes. Final exam is cumulative. Quizzes are web-based quizzes on laboratory preparation material before each laboratory.

**Exam Format:** Multiple choice.

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**FScN 4614 Community Nutrition**

- A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
- Instructor: Smith, Chery

**Description:** Community-based nutrition issues will be explored, including nutrition risks associated with different age, sex, ethnic, and socioeconomic groups; community needs assessment; program planning and evaluation; and programs developed to address the needs and interests for people at different stages of the life cycle, ethnic or cultural backgrounds, and literacy levels. Students will be able to describe the purpose and principles of community nutrition, the role of the nutritionists, and methods employed to gather information on the nutritional status of the multietnic American population. They will be able to describe how race, culture and socioeconomic status influence the nutritional risk factors associate with chronic illness and selected conditions (i.e. pregnancy, low birthweight infants, aging). Students will be able to conduct a community needs assessment, identify and prioritize problems, and develop a culturally-appropriate nutrition program plan for people living in their community. Lastly, students will be able to characterize the major government - sponsored food and nutrition programs and will be able to refer members of the community to the appropriate program for services required.

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**FScN 4622 Nutritional Toxicology, the basic science of diet-related toxicants**

- A-F only, 3 credit(s); BIOC 3021; designed for students majoring in [nutrition or food science or toxicology ] Credit will not be granted if credit has been received for: NUTR 5627;
- Instructor: Chen, Chi

**Description:** The goal of this course is to provide the students an intellectual platform to comprehend the potential adverse effects of foreign compounds to the biological system. This course comprises two parts. Part 1 will cover the basic knowledge of toxicology, such as toxicokinetics; enzymes and pathways responsible for the adsorption, distribution, metabolism and excretion (ADME) of xenobiotics; oxidative stress and genetic polymorphism in the toxicological events; organ toxicity. Part 2 will focus on primary research by studying specific toxic (or detoxification) events associated with food intake and environmental exposure as well as in vivo and in vitro techniques used in toxicological research.

**Style:** 100% Lecture.

**Grading:** 32% mid exam, 28% final exam, 32% reports/papers, 8% attendance.

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**FScN 4666 Medical Nutrition Therapy II**

- A-F only, 3 credit(s);
- Instructor: Earthman, Carrie P

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

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**FScN 4732 Food and Nutrition Management**

- A-F only, 3 credit(s);
- Instructor: Marquart, Len

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

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**FScN 5481 Sensory Evaluation of Food Quality**

- 2 credit(s);
- Instructor: Vickers, Zata M

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

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**FScN 5541 Dairy Product Chemistry and Technology**

- 2 credit(s);
- Instructor: Schoenfuss PhD, Tonya C

**Description:** Student may contact the instructor or department for information.
FScN 5601 Management of Eating Disorders
3 credit(s);
Instructor: Lampert, Jillian Garnet
Description: This course is open to undergraduate and graduate students in nutrition, psychology, medical, nursing, public health, and other related disciplines or by permission of instructor. The purpose of this course is to provide the student with an understanding of etiology, occurrence, course, treatment, and prevention of eating disorders from a multidisciplinary perspective. In addition, this course will examine the roles and responsibilities of eating disorder treatment team members of varying types across a variety of treatment milieus. The instructor will provide a framework for the course material, and invite regular participation by students. A number of eating disorder professionals from the community will come into the class and speak about how they are involved in eating disorder treatment. Many of these are interactive presentations. Students have the chance to explore the use of yoga, art therapy, music therapy, and other therapeutic interventions commonly used in the treatment of eating disorders. The course format will include lecture, discussion, and case studies incorporating readings and other information. The course projects mimic typical work in an eating disorder treatment setting, giving students an idea of day to day work that clinicians complete in the course of working with individuals with eating disorders.
Style: 35% Lecture, 40% Discussion, 25% Guest Speakers.
Grading: 20% mid exam, 20% final exam, 30% reports/papers, 20% special projects, 10% in-class presentation.

FScN 8310 General Seminar
S-N only, 1 credit(s), max credits 2;
Instructor: Kurzer PhD, Mindy Susan
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;
Instructor: Peterson, Devin Grant
Description: Student may contact the instructor or department for information.

Food Systems 305 Alderman Hall

FdSy 2101 Plant Production Systems
3 credit(s);
Instructor: Sheaffer, Craig Charles
Description: Student may contact the instructor or department for information.

Foreign Study - SPAN 774 Social Sciences

FSSP 5960 Preparatory Seminar for SPAN Overseas Research
A-F only, 4 credit(s); dept consent Credit will not be granted if credit has been received for: FSSP 3960;
Instructor: Riviere, Melissa
Description: Student may contact the instructor or department for information.

FSSP 5960 Preparatory Seminar for SPAN Overseas Research
A-F only, 4 credit(s); dept consent Credit will not be granted if credit has been received for: FSSP 3960;
Instructor: Miller, Matthew Lee
Description: Student may contact the instructor or department for information.

Forest and Natural Resource Management 115 Green Hall

FNRM 3131 Geographical Information Systems (GIS) for Natural Resources
A-F only, 4 credit(s); Soph or jr or sr or UHP fr Credit will not be granted if credit has been received for: FNRM 5131; Meets CLE req of Technology and Society
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
FNRM 3203 Forest Fire and Disturbance Ecology
A-F only, 3 credit(s); [3104 or equiv], course fee Credit will not be granted if credit has been received for: FNRM 5203;
Instructor: Frelich, Lee E
Description: The ecology, history, management, and control of fire, wind, insect infestation, deer browsing, and other disturbances in forests, including disturbance regimes of boreal, northern hardwood, and savannas of North America. The influence of disturbance on wildlife habitat, urban/wildland interfaces, forest management, and stand/landscape dynamics. Tree mortality in fires, successional patterns created by fires, and interactions of life history traits of plants with disturbances.
Style: 60% Lecture, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 25% mid exam, 25% final exam, 50% written homework.
Exam Format: Short answer, short essay, solve problems

FNRM 3218 Measuring and Modeling Forests
A-F only, 3 credit(s); [ESPM 3012 or STAT 3011], MATH 1151 Credit will not be granted if credit has been received for: FNRM 5218;
Instructor: Burk, Thomas Edward
Description: General sampling design and survey techniques to assess current resource conditions. Application of metrics/sampling methods to forest vegetation. Calculation of tree/stand volume. Selection of modeling approaches. Case studies of modeling to project future growth. Landscape processes, characterization, modeling. Offered every Spring.
Style: 80% Lecture, 20% Small Group Activities.
Grading: 71% mid exam, 24% written homework, 5% class participation. 4 "mid exam"s

FNRM 3262 Remote Sensing of Natural Resources and Environment
3 credit(s); Credit will not be granted if credit has been received for: FNRM 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.
Style: 60% Lecture, 40% Laboratory.

FNRM 3411 Managing Forest Ecosystems: Silviculture
3 credit(s); [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: FNRM 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. Weekend field trip.

FNRM 3431 Timber Harvesting and Road Planning
2 credit(s); 3411 or instr consent Credit will not be granted if credit has been received for: FNRM 5431;
Instructor: Blinn, Charlie
Description: This course provides an introduction to timber harvesting and road planning. The course begins by reviewing timber harvesting equipment. With that background, we visit several active timber harvesting operations during a one-day field trip. We then explore some basic concepts about logging costs and productivity before discussing road and timber sale planning. This course is primarily intended for upper division students in the Forest Ecosystem Management and Conservation specialization within the Forest Resources curriculum. Course information is also pertinent to anyone interested in timber harvesting, soils, conservation of natural resources, and road or trail building. 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. Two all-day field trips.
Style: 55% Lecture, 5% Film/Video, 5% Discussion, 5% Small Group Activities, 15% Student Presentation, 10% Field Trips, 5% Guest Speakers.
Grading: 24% mid exam, 18% final exam, 10% reports/papers, 10% special projects, 33% written homework, 5% in-class presentation.
Exam Format: All three exams are a mixture of True/False, short answer, matching, and fill-in-the-blank questions.
FNRM 3471 Forest Planning and Management
A-F only, 3 credit(s); Intro silviculture or concurrent registration in silviculture or instr consent Credit will not be granted if credit has been received for: FNRM 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.

FNRM 3501 Arboriculture: Selection and Maintenance of Trees
3 credit(s);
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 Arboriculture: Integrated Management of Landscape Trees, Shrubs, and Vines. Other assigned readings from journals and texts reserved in the Forestry library, as well as electronically forwarded articles. Classes are discussion/demonstration lectures with professionals as occasional lecturers. Exams are short-answer and problem solving in nature. Quizzes are brief and based on reading assignments. Lab exercises are pragmatic and problem-solving.
Style: 60% Lecture, 10% Discussion, 20% Demonstration, 10% Guest Speakers.
Grading: 10% mid exam, 10% final exam, 15% reports/papers, 35% quizzes, 20% written homework, 10% additional semester exams.
Exam Format: Short-answer, problem solving.

FNRM 4232W Managing Recreational Lands
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: FNRM 5232; Meets CLE req of Writing Intensive
Instructor: Schneider, Ingrid Eleanore
Description: This course is designed to provide students with an understanding of the principles and practices of outdoor recreation management. Specific objectives are to: (1) understand federal recreation land management policy & organization, (2) develop an understanding of conceptual frameworks for recreation resource & visitor use management, (3) identify & evaluate visitor caused impacts to resources & to visitor experiences, understand & be able to use management tools designed to reduce recreation-related impacts & conflicts, & (4) demonstrate an understanding of course material through exams & applied assignments.
Style: Recitation

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Ek, Alan Ryan
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Hoganson, Howard M
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Nelson, Kristen C.
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Burk, Thomas Edward
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Kilgore, Mike
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Blinn, Charlie
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Current, Dean Alan
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Schneider, Ingrid Eleanor
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Reich, Peter Bernard
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Bauer, Marvin E
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Johnson, Gary
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Frelich, Lee E
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Carlson PhD, Stephan Paul
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Bolstad, Paul V
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: David, Andrew J
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: D’Amato, Anthony William
Description: Student may contact the instructor or department for information.
FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Davenport, Mae Allen
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Stafford, Susan G
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Becker, Dennis R
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Knight, Joe
Description: Student may contact the instructor or department for information.

FNRM 4293 Directed Study
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: Karwan, Diana Louise
Description: Student may contact the instructor or department for information.

FNRM 4501 Urban Forest Management: Managing Greenspaces for People
3 credit(s); [1101, 3501, Ent 4251, PIPa 3003, [UF major or minor]] or instr consent Credit will not be granted if credit has been received for: FNRM 5501;
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 curricula. This is a management course with less emphasis on tree care than FR 3501. Topics of study include: risk assessment and management; inventorying and developing maintenance programs; legal perspectives of urban forest management; urban user preferences; minimizing green and gray infrastructure conflicts; protecting the resources during development and urban expansion; storm preparedness and response.
Style: 40% Lecture, 20% Discussion, 5% Student Presentation, 15% Demonstration, 20% Guest Speakers.
Grading: 15% mid exam, 15% final exam, 30% reports/papers, 30% quizzes, 10% in-class presentation.

FNRM 5146 Science and Policy of Global Environmental Change
3 credit(s); 3104 or Biol 3407 or equiv Credit will not be granted if credit has been received for: EEB 5146;
Instructor: Hobbie, Sarah E
Description:

FNRM 5203 Forest Fire and Disturbance Ecology
A-F only, 3 credit(s); [Grad student or instr consent], course fee Credit will not be granted if credit has been received for: FNRM 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 savannas of North America. The influence of disturbance on wildlife habitat, urban/wildland interfaces, forest management, and stand/landscape dynamics. Tree mortality in fires, successional patterns created by fires, and interactions of life history traits of plants with disturbances.
Style: 60% Lecture, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 25% mid exam, 25% final exam, 40% written homework, 10% in-class presentation.
Exam Format: Short answer, short essay, solve problems

FNRM 5218 Measuring and Modeling Forests
A-F only, 3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: FNRM 3218;
Instructor: Burk, Thomas Edward
Description: General sampling design and survey techniques to assess current resource conditions. Application of metrics/sampling methods to forest vegetation. Calculation of tree/stand volume. Selection of modeling approaches. Case
studies of modeling to project future growth. Landscape processes, characterization, modeling. Offered every Spring.

Style: 80% Lecture, 20% Small Group Activities.

Grading: 71% mid exam, 24% written homework, 5% class participation. 4 "mid exam"s

FNRM 5232 Managing Recreational Lands
A-F only, 4 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: FNRM 4232W;

Instructor: Schneider, Ingrid Eleanor

Description: This course is designed to provide students with an understanding of the principles and practices of outdoor recreation management. Specific objectives are to: (1) understand federal recreation land management policy & organization, (2) develop an understanding of conceptual frameworks for recreation resource & visitor use management, (3) identify & evaluate visitor caused impacts to resources & to visitor experiences, understand & be able to use management tools designed to reduce recreation-related impacts & conflicts, & (4) demonstrate an understanding of course material through exams & applied assignments.

Style: Recitation

FNRM 5262 Remote Sensing of Natural Resources and Environment
3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: FNRM 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.

FNRM 5411 Managing Forest Ecosystems: Silviculture
3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: FNRM 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. Weekend field trip.

FNRM 5412 Digital Remote Sensing
3 credit(s);

Instructor: Bauer, Marvin E

Description: Digital Remote Sensing provides graduate and advanced undergraduate students with a working knowledge of biophysical-quantitative remote sensing. The theoretical basis and practical aspects of digital remote sensing are addressed, including energy-matter interactions, radiation measurements and sensors, and digital image processing and analysis. Lectures and reading assignments will be supplemented by problems and projects providing experience in working with digital remote sensing imagery, models and image processing.

Style: 80% Lecture, 10% Discussion, 5% Student Presentation, 5% Demonstration.

Grading: 30% mid exam, 20% final exam, 30% special projects, 10% in-class presentation, 10% problem solving.

Exam Format: Essay

FNRM 5413 Managing Forest Ecosystems: Silviculture Lab
1 credit(s);

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.

FNRM 5431 Timber Harvesting and Road Planning
2 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: FNRM 3431;

Instructor: Blinn, Charlie

Description: This course provides an introduction to timber harvesting and road planning. The course begins by reviewing timber harvesting equipment. With that background, we visit several active timber harvesting operations during a one-day field trip. We then explore some basic concepts about logging costs and productivity before discussing road and timber sale planning. This course is primarily intended for upper division students in the Forest Ecosystem Management and Conservation specialization within the Forest Resources curriculum. Course information is also pertinent to anyone interested in timber harvesting, soils, conservation of natural resources, and road or trail building. 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. Two all-day field trips.

**Style:** 55% Lecture, 5% Film/Video, 5% Discussion, 5% Small Group Activities, 15% Student Presentation, 10% Field Trips, 5% Guest Speakers.

**Grading:** 24% mid exam, 18% final exam, 10% reports/papers, 10% special projects, 33% written homework, 5% in-class presentation.

**Exam Format:** All three exams are a mixture of True/False, short answer, matching, and fill-in-the-blank questions.

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**FNRM 5471 Forest Planning and Management**
A-F only, 3 credit(s); Grad student or instr consent
Credit will not be granted if credit has been received for: FNRM 3471;
Instructor: STAFF
Description:

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**FNRM 5501 Urban Forest Management: Managing Greenspaces for People**
3 credit(s); Grad student or instr consent
Credit will not be granted if credit has been received for: FNRM 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 curricula. This is a management course with less emphasis on tree care than FR 3501. Topics of study include: risk assessment and management; inventorying and developing maintenance programs; legal perspectives of urban forest management; urban user preferences; minimizing green and gray infrastructure conflicts; protecting the resources during development and urban expansion; storm preparedness and response.
Style: 40% Lecture, 20% Discussion, 5% Student Presentation, 15% Demonstration, 20% Guest Speakers.
Grading: 15% mid exam, 15% final exam, 30% reports/papers, 30% quizzes, 10% in-class presentation.

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**FNRM 8101 Research Problems: Physiological Ecology**
1-5 credit(s), max credits 10, 10 completions allowed;
Instructor: Reich, Peter Bernard
Description: Student may contact the instructor or department for information.

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**FNRM 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.

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**FNRM 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.

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**FNRM 8103 Research Problems: Forest Hydrology**
1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: Karwan, Diana Louise
Description: Student may contact the instructor or department for information.

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**FNRM 8104 Research Problems: Forest Ecology**
1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: Frelich, Lee E
Description: Student may contact the instructor or department for information.

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**FNRM 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.

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**FNRM 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.
FNRM 8107 Seminar: Forest Resources
1 credit(s);  
Instructor: Thompson, Jerrilyn LaVarre  
Description: Student may contact the instructor or department for information.

FNRM 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.

FNRM 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.

FNRM 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.

FNRM 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.

FNRM 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.

FNRM 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.

FNRM 8203 Research Problems: Forest Recreation
1-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Schneider, Ingrid Eleanore  
Description: Student may contact the instructor or department for information.

FNRM 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.

FNRM 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.

FNRM 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.

FNRM 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.
FNRM 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.

FNRM 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.

FNRM 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.

FNRM 8205 Research Problems: Spatial Data Analysis
1-5 credit(s), max credits 10, 10 completions allowed;
Instructor: Knight, Joe
Description: Student may contact the instructor or department for information.

FNRM 8206 Research Problems: Forest Management
1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: Hoganson, Howard M
Description: Student may contact the instructor or department for information.

FNRM 8206 Research Problems: Forest Management
1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: Blinn, Charlie
Description: Student may contact the instructor or department for information.

FNRM 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.

FNRM 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.

FNRM 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.

FNRM 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.

FNRM 8208 Research Problems: Environmental Learning and Leadership
1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: Carlson PhD, Stephan Paul
Description: Student may contact the instructor or department for information.

French 314 Folwell Hall

Fren 100 Reading French in the Arts and Sciences
S-N only, 0 credit(s);
**Instructor:** Gibson, Rachel D  
**Description:** Student may contact the instructor or department for information.

**Fren 1001 Beginning French**
- **5 credit(s);**
- **Instructor:** STAFF

**Description:** This course is intended for students with NO previous study of French, or students who have not studied French in recent years (gap of 3 years or more). If you have more than two years of high school French completed within the last year or two, you should register for Fren 1022 which provides students with an accelerated review of Fren 1001 material followed by material covered in Fren 1002. For further information on placement, please see your advisor or contact the Department of French and Italian. Fren 1001 is a theme-based course. Themes addressed in the course include: student and family life, recreation, life in Francophone cities, housing, North America Francophone history. In this course you will develop your communication skills in French in different areas: speaking, writing, listening and reading while developing a better understanding of diverse aspects of French-speaking cultures. The text, "Deux Mondes," 7th ed. is accompanied by an electronic workbook (Connect) with a variety of practice activities. In the "Deux Mondes" textbook you 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:** 15% final exam, 12% reports/papers, 10% special projects, 8% quizzes, 30% other evaluation. written exams; 15% speaking exams; 10% workbook exercises  
**Exam Format:** All exams evaluate listening, vocabulary, grammar, writing, reading and culture.

**Fren 1001 Beginning French**
- **5 credit(s);**
- **Instructor:** Estrem, Mary Elaine

**Description:** This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of student group. (Assignments may be submitted via e-mail.) Visit "Class URL" for ODL policies, including fee and financial aid restrictions. In this course, based on the video series French in Action, 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; making purchases; talking about one's interests and one's dreams; talking about one's studies; extending, accepting, and refusing invitations; and behaving politely at the dinner table. You will learn to use past tenses, and you will see some of the famous sites in Paris. The language you learn in French 1001 will allow you to function in some social situations and begin your understanding of French grammar.

**Style:** This is a printed correspondence section.  
**Grading:** See attached syllabus  
**Exam Format:** Supervised, in-person exams.

**Fren 1002 Beginning French**
- **5 credit(s);**
- **Instructor:** STAFF

**Description:** Fren 1002 is intended for students who have completed Fren 1001 or the equivalent. In this course you will build on the interpersonal, interpretive and presentational skills developed in first-semester French and on your knowledge and understanding of Francophone cultural practices and products. Cultural content is taught through multimedia and cultural readings. Fren 1002 is a theme-based course. Themes addressed in this course include: Francophone youth, Francophone cuisine, geography and culture of French regions, the French educational system, ecological practices, employment and other work-related issues important to Francophone youth, immigration in France in particular second-third generation immigrant issues, travel in the Francophone world. The text, "Deux Mondes," 7th ed., is accompanied by an electronic workbook (Connect) with a range of practice activities. In the "Deux Mondes" textbook you 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, 15% final exam, 12% reports/papers, 8% special projects, 5% quizzes, 15% 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);**
- **Instructor:** Estrem, Mary Elaine

**Description:** This course is a printed distance learning section (known as a correspondence course) offered through
Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group.

In this course, based on the video series French in Action, 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; making purchases; talking about one's interests and one's dreams; talking about one's studies; extending, accepting, and refusing invitations; and behaving politely at the dinner table. You will learn to use past tenses, and you will see some more of the famous sites in Paris. The language you learn in French 1002 will allow you to function in a greater range of social situations and extend your understanding of French grammar.

Style: Mostly discussion and student involvement in pairs/group activities
Grading: 10% final exam, 20% reports/papers, 5% quizzes, 35% additional semester exams, 5% class participation, 20% other evaluation.
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);
Instructor: STAFF
Description: This course is for those who have successfully passed Fren 1003 with a C- or better or have passed all sections of the EPT (Entrance Proficiency Test) for this level. This course continues the building of speaking, writing, listening and reading skills acquired during the first three semesters of French while expanding cultural awareness, knowledge and understanding of Francophone cultures. Emphasis is placed on reading, writing and culture. The theme of this course is that of cultural identity, addressed via discussion of food, family, education, work, nationality and diversity. A custom edition of "Ouvertures" (based on the 4th ed.) includes contemporary and literary texts. In this text students will learn material from Chapters 1 through 8, with emphasis on chapters 1, 2, 3, 6 and 7. A supplemental course pack includes activities to accompany video clips, as well as supplemental grammar activities. Writing skills will be developed through process-writing essays. Several class sessions will allow students to work with audio-visual resources (mainly film clips) to develop their listening skills; the clips will also serve as a basis for cultural discussions. During enrollment in 1004 students who choose to, will have the opportunity to complete the Language Proficiency Exam (LPE) and earn a text line on their transcript endorsing their proficiency in French.

Style: Mostly discussion and student involvement in pairs/group activities.
Grading: 15% final exam, 20% reports/papers, 7% quizzes, 15% written homework, 20% additional semester exams, 5% class participation, 25% other evaluation.
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 1022 Accelerated Beginning French

5 credit(s); 2 or more yrs high school French
Credit will not be granted if credit has been received for: FREN 4002;
Instructor: STAFF
Description: Prereq: 2 or more yrs high school French. This beginning French course for false beginners is intended for students who have previously studied French in high school or at a community college, or who are transfer students, while Fren 1001 is a course for students with no previous French studies. The Fren 1022 course starts with a review of Fren 1001 materials (Ch. preliminaire through Ch. 5 in "Deux Mondes" 7th ed.), followed by materials introduced in Fren 1002.
(Ch. 6 through Ch. 10). The course allows students to learn first-year content in one semester. Upon entering Fren 1022 you should be familiar with basic vocabulary related to daily life and daily survival situations, present and past tenses (please note: "passe compose" will be reviewed and "imparfait" will be introduced). Fren 1022 is a theme-based course. Themes addressed in this course include: Francophone youth, Francophone cuisine, geography and culture of French regions, the French educational system, ecological practices, employment and other work-related issues important to Francophone youth, immigration in France in particular second-third generation immigrant issues, travel in the Francophone world. In this course you will build on your interpersonal, interpretive and presentational skills in French and on your knowledge and understanding of Francophone cultural practices and products. Cultural content is taught through multimedia and cultural readings. The text, "Deux Mondes," 7th ed., is accompanied by an electronic workbook (Connect) with a range of practice activities. 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:** 35% written exams, 15% oral exams, 15% final exam, 12% reports/papers, 8% special projects, 7% quizzes, 8% workbook exercises.

**Exam Format:** All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

**Fren 3014 French Phonetics**

- **3 credit(s);**
- **Instructor:** Treece PhD, Rick
- **Description:** This course will focus on both the theoretical and practical aspects of French pronunciation, with a strong emphasis on improving pronunciation. In the theoretical portion of the course, the major aspects of French pronunciation will be examined, with particular attention given to areas of contrast between French and English pronunciation. Students will learn to use symbols from the International Phonetic Alphabet, i.e. representing French sounds with phonetic symbols. Another important theoretical component is learning the rules governing the correspondence between written letters and their pronunciation. In the practical portion of the course, students will be given extensive pronunciation practice so that they may identify and eliminate errors in their own pronunciation. NOTE: This is NOT a course in French conversation. This course is designed for non-native speakers of French and is a required course for French majors who declared the major prior to Fall 2010 (who may, if they have excellent pronunciation skills, attempt to gain exemption from this requirement by passing a practical pronunciation test).
- **Style:** 10% Lecture, 10% Discussion, 80% Laboratory.
- **Grading:** 10% final exam, 20% quizzes, 15% class participation, 45% laboratory evaluation, 10% other evaluation. online voice-exchange with a French student
- **Exam Format:** short answer, multiple choice

**Fren 3015 Advanced French Grammar and Communication**

- **3 credit(s);**
- **Instructor:** STAFF
- **Description:** Fren 3015 is the first in a two-course sequence (with 3016) which combines an intensive review of grammar with a special focus on the articulation and organization of ideas through reading, writing, and textual analysis. In 3015, students will develop skills in a variety of writing forms (e.g. portrait, description, narration) while exploring selected cultural themes through written texts and film. Course requirements include exams as well as regular writing assignments, which usually involve one rewriting. In order to enroll in 3015, it is highly recommended that students have completed Fren 1004 with a minimum grade of B; transfer students should take the Language Proficiency Exam and receive a High Pass. For information on the LPE, see <a href="http://langtest.umn.edu/imdatesGPT.html">http://langtest.umn.edu/imdatesGPT.html</a>
- **Style:** Language instruction
- **Exam Format:** Grammar exercises, essays

**Fren 3016 Advanced French Composition and Communication**

- **3 credit(s);**
- **Instructor:** STAFF
- **Description:** Fren 3016 is the second in a two-course sequence (with 3015) which combines an intensive review of grammar with a special focus on the articulation and organization of ideas through reading, writing, and textual analysis. In 3016, students will develop skills in a variety of writing forms (e.g. compte 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**
Fren 3101W Methods in French and Francophone Studies

4 credit(s); Meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Noakes, Susan J

Description: Fren 3022 is an advanced French content-based course. Themes addressed in the course are: France’s economy in Europe and in the world, business creation/organization/expansion and decline, green business and marketing practices, employment/unemployment, human resources management, diversity in the workplace, job-search procedures. You will learn how to interpret written and visual texts on contemporary business and work issues in France, translate short texts, write standard business letters and job and internship applications, how to hold a telephone conversation, how to participate in a job interview. We will also describe, analyze and discuss sustainable business practices in France through case studies of businesses that have moved towards sustainability in terms of resources selection, product development, marketing and human resources management. We will make extensive use of authentic written and visual texts (newspaper and magazine articles, news broadcasts, documentaries, websites) which will allow you to gain insights into current socio-economic issues in France and gain a better understanding of similarities and differences in business and employment practices between France and the United States. Interpretation of authentic documents, discussions, expressing and supporting one’s opinion, narrating in paragraphs, comparing/contrasting orally and in writing will be emphasized. This course is web-enhanced and will allow you to further develop your language and intercultural communication competence outside of class while exploring business content.

Style: 25% Lecture, 30% Discussion, 25% Small Group Activities, 15% Student Presentation, 5% Guest Speakers.

Grading: 18% reports/papers, 15% special projects, 10% quizzes, 20% in-class presentation, 7% class participation, 30% other evaluation. 3 written exams: 30%

Fren 3101W Methods in French and Francophone Studies

4 credit(s); Meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Mougel, Patricia M.

Description: Fren 3101W is a writing intensive course offering a broad introduction to the critical methods, standards of scholarship, and body of knowledge specific to the discipline of French and Francophone Studies. The course will train students to understand and analyze various documents and media such as literary works, cultural or theoretical texts, cultural artifacts, film, art, audio and visual media pertaining to France and Francophone communities from selected periods spanning the centuries. Since this is a writing intensive course, particular attention is given to the content, style and format of written assignments. The theme and content of each section will vary according to instructor. The theme for this section is: Stories of self: Identities and representation. Possible readings and viewings: Selected theoretical articles, Molière’s Le Tartuffe, Gustave Flaubert’s Un Coeur simple, Louise Dupré’s La Memoria; films: Le Tartuffe and La Noire de. . . selected poetry.

Style: 10% Lecture, 10% Film/Video, 55% Discussion, 15% Small Group Activities, 10% Student Presentation.
Fren 3410 Quebecois Literature
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Ferraris-Besso, Caroline
Description: "Outcasts, Criminals, & Con Artists: The Dark Side of France" This course looks at the French underworld in the long nineteenth century: social climbers, master criminals, prostitutes, and revolutionaries. How do groups differentiate themselves in and by way of literature? What role do institutions (the government, the judicial system, the media) play in the containment or increase of criminality? What is the impact of urbanization and industrialization? Those questions will be tackled through a variety of materials, including fictions by Hugo, Zola, Balzac, Eugene Sue, Gaston Leroux; theoretical texts (Foucault); movies (L’Apollonide). In the last section of the course, we will also look at the renewal of the crime genre on French television (Spiral, Braquo).
Grading: 15% final exam, 30% reports/papers, 10% written homework, 10% in-class presentation, 35% class participation.

Fren 3410 Topics in Medieval and Renaissance Literature
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Ferraris-Besso, Caroline
Description: La Francophonie au Moyen Age: What we think of as "francophone" literature and culture has a long history, going back long before the Industrial Revolution or the nineteenth-century French colonization of territories in Africa and Asia. In fact, France began colonizing such places as Syria and Lebanon as early as the eleventh century. Such early colonization established linguistic, cultural, and institutional relationships between "metropolitan" France and "Outremer" which continue to affect culture and politics even today. Students in this class will study literary and non-literary texts, along with cultural artifacts, art works, and songs, relating to the earliest centuries of French colonization. They will examine the ways in which several kinds of Francophone "discourses" developed outside what is now, geographically and politically, France. Francophone civilization will be studied not only in the Middle East and North Africa, but also in other areas of the Mediterranean, including Italy and especially Sicily, as well as in England. The class will be based on reading (before class) and discussion (in class), both conducted entirely in French. Class work will also include frequent quizzes on the readings, prior to the beginning of discussion; individual presentations and student leadership of parts of discussions; short papers; and final oral examinations. Reading will average about 60 pages per week, in modern French translation (rather than the original medieval vernacular forms of the language).
Style: 5% Lecture, 5% Film/Video, 70% Discussion, 10% Small Group Activities, 10% Student Presentation. The class is incorrectly listed as a lecture course. The instructor is trying to get this wrong and misleading information changed.
Grading: 14% final exam, 12% reports/papers, 50% quizzes, 10% in-class presentation, 14% class participation.
Exam Format: Final exam will be oral, an exchange between professor and individual student, in professor's office. Quizzes will cover such things as vocabulary, plot development and characters, etc.

Fren 3510 Sociolinguistics of French
3 credit(s);3015, [3500 or Ling 3001 or instr consent ]Credit will not be granted if credit has been received for: FREN 5531;Meets CLE req of Global Perspectives
Instructor: Kerr, Betsy Jean
Description: Sociolinguistics is the study of language in relation to its social contexts, and how language varies in different contexts. After a brief introduction to the basic principles of language variation, we will consider the development and current state of linguistic ideology in France (e.g. what is the Academie Francaise, why is it important?) and how this ideology plays out in some current linguistic debates such as the predominance of anglicisms in contemporary French and...
the 1990 spelling reform. We will consider the diverse varieties of French that correspond to the various locations where French is spoken, with some attention to social and stylistic differences as well. Starting with regional differences within France, our itinerary will gradually move away from the metropole: first Belgium and Switzerland; then Canada, where we will spend some time tracing the history and current situation of French within the English-dominated North American continent; a brief look at French-based creoles and French in Africa; and finally, French in New England and in Louisiana. Our approach will be both external (what are the historical/cultural events and contexts that have affected language use?) and internal (what are the actual linguistic features that distinguish a particular variety of the language?). The course will present a broad survey; groups of undergraduate students will choose a topic of interest to research in depth for an in-class presentation and a final paper. Taught in French. Prereq: Fren 3015 or equivalent. Ling 3001 recommended, but not required.

**Exam Format:**
- 30% Lecture, 70% Discussion.

**Grading:**
- 25% mid exam, 25% final exam, 30% special projects, 20% class participation.

**Exam Format:**
- short answer, essay, limited true-false

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**Fren 3612 Reading Libertinism**

3 credit(s); 3015, 3101 strongly recommended

Credit will not be granted if credit has been received for: FREN 3712; Meets CLE req of Arts/Humanities; meets CLE req of Civic Life and Ethics

Instructor: Cherbuliez, Juliette

**Description:**

****TAUGHT IN ENGLISH, THIS COURSE IS OPEN TO NON-MAJORS and MAJORS ALIKE. Readings available in English and in French.**** What does it mean to be libertine? From its Latin origins describing an individual freed from servitude, the term has come to apply to individuals of loose sexual morality who resist all moral and social constraints. Even—or especially—today the relationship between the extremes of philosophy, practice, and morality is hard to pin down. Is libertinage an extension of Sceptical philosophy, or an excuse for pornography and an incitement to violent behavior? What comes first, a practice (libertinage), a philosophy or system (libertinism), or a character (the libertine)? More generally, what is the relationship between fiction and practice, between what we imagine and what we do? We will be reading texts about underground, liminal, subversive, or impossible philosophical countercultures that work to transform society by imagining the impossible and by pushing society to its limits (Cyrano, Laclos, Sade). We will discover why society always has a philosophical underground and how it shapes our understanding of the individual's responsibilities in society (Vadim, Kubrick). What is the role of the philosopher in civil society? Must we always have elements of society (cults, terrorists, fashion designers) who push the limits of what is acceptable? Discussing the shifting notions of acceptable or moral behavior through an examination of groups who thoughtfully push the limits on what is even imaginable, we will consider the role of philosophizing and imagining in the creation of society and of its values. We will treat seriously the distinctions between philosophical practice and individual desire or impulse, between the historical relativism of morals and the enduring ethics of our culture, and between abstract consideration of ethics and the practice of such considerations. For French majors /minors only ONLY: 3015 is a prerequisite; 3101 is strongly recommended. Please contact the instructor with questions.

**Style:**
- 50% Lecture, 15% Film/Video, 25% Discussion, 10% Small Group Activities.

**Grading:**
- 25% mid exam, 25% final exam, 10% quizzes, 20% reflection paper, 20% class participation.

**Exam Format:**
- Essay and identification

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**Fren 3712 Reading Libertinism**

3 credit(s); Credit will not be granted if credit has been received for: FREN 3612; Meets CLE req of Arts/Humanities; meets CLE req of Civic Life and Ethics

Instructor: Cherbuliez, Juliette

**Description:**

****A COMBINED CLASS WITH FREN 3712, THIS SECTION IS FOR FRENCH CREDIT.**** What does it mean to be libertine? From its Latin origins describing an individual freed from servitude, the term has come to apply to individuals of loose sexual morality who resist all moral and social constraints. Even—or especially—today the relationship between the extremes of philosophy, practice, and morality is hard to pin down. Is libertinage an extension of Sceptical philosophy, or an excuse for pornography and an incitement to violent behavior? What comes first, a practice (libertinage), a philosophy or system (libertinism), or a character (the libertine)? More generally, what is the relationship between fiction and practice, between what we imagine and what we do? We will be reading texts about underground, liminal, subversive, or impossible philosophical countercultures that work to transform society by imagining the impossible and by pushing society to its limits (Cyrano, Laclos, Sade). We will discover why society always has a philosophical underground and how it shapes our understanding of the individual's responsibilities in society (Vadim, Kubrick). What is the role of the philosopher in civil society? Must we always have elements of society (cults, terrorists, fashion designers) who push the limits of what is acceptable? Discussing the shifting notions of acceptable or moral behavior through an examination of groups who thoughtfully push the limits on what is even imaginable, we will consider the role of philosophizing and imagining in the creation of society and of its values. We will treat seriously the distinctions between philosophical practice and individual desire or impulse, between the historical relativism of morals and the enduring ethics of our culture, and between abstract consideration of ethics and the practice of such considerations. For French majors /minors only ONLY: 3015 is a prerequisite; 3101 is strongly recommended. Please contact the instructor with questions.

**Style:**
- 50% Lecture, 15% Film/Video, 25% Discussion, 10% Small Group Activities.

**Grading:**
- 25% mid exam, 25% final exam, 10% quizzes, 20% reflection paper, 20% class participation.

**Exam Format:**
- Essay and identification
Fren 4001 Beginning French
2 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 4022 which provides students with an accelerated review of Fren 4001 material followed by material covered in Fren 4002. For further information on placement, see your advisor or contact the Department of French and Italian. Fren 4001 is a theme-based course. Students develop their communication skills in French in different areas: speaking, writing, listening and reading. In addition to linguistic skills, students develop a better understanding of diverse aspects of French-speaking cultures. Themes addressed in the course include: student life, family, recreation, life in Francophone cities, housing, Francophone heritage in Northern America and Canada. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from "Premiere Etape" through Ch. 5. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.
Style: Combination of whole-class and small-group activities
Grading: 10% mid exam, 15% final exam, 12% reports/papers, 8% special projects, 10% quizzes, 25% other evaluation.
Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture.

Fren 4002 Beginning French
2 credit(s); Grad studentCredit will not be granted if credit has been received for: FREN 1022;
Instructor: STAFF
Description: Fren 4002 is intended for students who have completed Fren 4001 or the equivalent. In this course students build on the interpersonal, interpretive and presentational skills developed in first-semester French and on their knowledge and understanding of Francophone practices and products. Culture is taught through multimedia and cultural readings. Fren 4002 is a theme-based course. Themes addressed in this course include: Francophone youth, food, geography, the environment, travel, education and employment. The text, "Deux Mondes," 6th ed., is accompanied by an electronic workbook (Quia/Centro) with a variety of practice activities including listening ones, designed to be used by students outside of class. In the "Deux Mondes" textbook students will work with materials from Ch. 6 through Ch. 10. Since the majority of class is devoted to communication activities, class attendance is fundamental. Expect an average of 1.5 hours of outside preparation for each class session hour.
Style: Mostly discussion and student involvement in pair/group activities
Grading: 30% written exams, 15% oral exams, 13% final exam, 12% reports/papers, 13% special projects, 12% quizzes, 5% workbook exercises
Exam Format: All exams evaluate listening, vocabulary, grammar, writing, reading and culture. Oral skills are assessed in pair discussions.

Fren 4003 Intermediate French
2 credit(s);
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, interpretive 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, the French resistance, wellness and health, current French 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 film 'Le Chemin du Retour' 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
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);
Instructor: STAFF
Description: This course is for those who have successfully passed Fren 1003 with a C- or better or have passed all sections of the EPT (Entrance Proficiency Test) for this level. This course continues the building of speaking, writing, listening and reading skills acquired during the first three semesters of French while expanding cultural awareness,
knowledge and understanding of Francophone cultures. Emphasis is placed on reading, writing and culture. The theme of this course is that of cultural identity, addressed via discussion of food, family, education, work, nationality and diversity. A custom edition of "Ouvertures" (based on the 4th ed.) includes contemporary and literary texts. In this text students will learn material from Chapters 1 through 8, with emphasis on chapters 1, 2, 3, 6 and 7. A supplemental course pack includes activities to accompany video clips, as well as supplemental grammar activities. Writing skills will be developed through process-writing essays. Several class sessions will allow students to work with audio-visual resources (mainly film clips) to develop their listening skills; the clips will also serve as a basis for cultural discussions. Email exchanges with native French speakers learning English will further enhance cultural knowledge. During enrollment in 1004 students who choose to, will have the opportunity to complete the Language Proficiency Exam (LPE) and earn a text line on their transcript endorsing their proficiency in French.

**Style:** Mostly discussion and student involvement in pair/group activities.

**Grading:** 15% final exam, 20% reports/papers, 5% quizzes. 10% email exchanges and other assignments, 30% written exams, 15% oral exams, 5% workbook exercises

**Exam Format:** Exams assess a student's listening, reading, speaking and writing proficiency. Oral exams are administered in pairs, written exams involve answering short questions and essay writing.

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**Fren 4022 Accelerated Beginning French**

2 credit(s); 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.

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**Fren 4109W Senior Project in French and Francophone Studies**

A-F only, 1 credit(s); Meets CLE req of Writing Intensive

**Instructor:** Noakes,Susan J

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

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**Fren 4109W Senior Project in French and Francophone Studies**

A-F only, 1 credit(s); Meets CLE req of Writing Intensive

**Instructor:** Kerr,Betsy Jean

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

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**Fren 4109W Senior Project in French and Francophone Studies**

A-F only, 1 credit(s); Meets CLE req of Writing Intensive

**Instructor:** Preckshot,J E

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

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**Fren 4109W Senior Project in French and Francophone Studies**

A-F only, 1 credit(s); Meets CLE req of Writing Intensive

**Instructor:** Brewer,Daniel

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

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**Fren 4109W Senior Project in French and Francophone Studies**

A-F only, 1 credit(s); Meets CLE req of Writing Intensive

**Instructor:** Sivert,Eileen B

**Description:** Student may contact the instructor or department for information.
Fren 4109W Senior Project in French and Francophone Studies
A-F only, 1 credit(s); Meets CLE req of Writing Intensive
Instructor: Cherbuliez, Juliette
Description: Student may contact the instructor or department for information.

Fren 4109W Senior Project in French and Francophone Studies
A-F only, 1 credit(s); Meets CLE req of Writing Intensive
Instructor: Chaouat, Bruno
Description: Student may contact the instructor or department for information.

Fren 4109W Senior Project in French and Francophone Studies
A-F only, 1 credit(s); Meets CLE req of Writing Intensive
Instructor: Wall-Romana, Christophe M
Description: Student may contact the instructor or department for information.

Fren 4110V Honors Thesis
A-F only, 1-2 credit(s), max credits 4; Meets CLE req of Writing Intensive
Instructor: Noakes, Susan J
Description: Student may contact the instructor or department for information.

Fren 4110V Honors Thesis
A-F only, 1-2 credit(s), max credits 4; Meets CLE req of Writing Intensive
Instructor: Kerr, Betsy Jean
Description: Student may contact the instructor or department for information.

Fren 4110V Honors Thesis
A-F only, 1-2 credit(s), max credits 4; Meets CLE req of Writing Intensive
Instructor: Preckshot, J E
Description: Student may contact the instructor or department for information.

Fren 4110V Honors Thesis
A-F only, 1-2 credit(s), max credits 4; Meets CLE req of Writing Intensive
Instructor: Brewer, Daniel
Description: Student may contact the instructor or department for information.

Fren 4110V Honors Thesis
A-F only, 1-2 credit(s), max credits 4; Meets CLE req of Writing Intensive
Instructor: Sivert, Eileen B
Description: Student may contact the instructor or department for information.

Fren 4110V Honors Thesis
A-F only, 1-2 credit(s), max credits 4; Meets CLE req of Writing Intensive
Instructor: Cherbuliez, Juliette
Description: Student may contact the instructor or department for information.

Fren 4110V Honors Thesis
A-F only, 1-2 credit(s), max credits 4; Meets CLE req of Writing Intensive
Instructor: Chaouat, Bruno
Description: Student may contact the instructor or department for information.

Fren 4110V Honors Thesis
A-F only, 1-2 credit(s), max credits 4; Meets CLE req of Writing Intensive
Instructor: Wall-Romana, Christophe M
Description: Student may contact the instructor or department for information.

Fren 4970 Directed Readings
1-4 credit(s), max credits 9, 9 completions allowed;
Instructor: STAFF
Description: Meets unique requirements decided on by faculty member and student. Individual contracts are drawn up
**Fren 5301 Critical Issues in French Studies**

3 credit(s); 
**Instructor:** Wall-Romana, Christophe M

**Description:** Poststructuralism in France. This seminar is an introduction to the major concepts, discourses and methods of what has come to be known as poststructuralism. It is meant to provide a solid grounding in the prolix debates within French thought between the 1950s and the 1980s, focusing on the origins, development and aftermaths of new frameworks for understanding history, critique, meaning, subjectivity, sociality and embodiment (among others). We will look at the emergence of structuralism with Saussure, Levi-Strauss and Barthes, then examine the thinkers who precipitated a turn within structuralism: Marx, Nietzsche, Freud, Hegel, Husserl, and Heidegger. We will then tackle central texts of Jacques Derrida, Roland Barthes, Michel Foucault, Althusser, Julia Kristeva, Gilles Deleuze, Luce Irigaray, Jean-Francois Lyotard and Jacques Lacan, with secondary readings by George Bataille, Maurice Blanchot, Jean-Paul Sartre, Emmanuel Levinas, Edouard Glissant, Judith Butler, and Jean Baudrillard. Throughout the seminar, we will attempt to situate the poststructuralist legacy within current schools of critical thought. Readings are mainly in English with a few in French. Non-francophone students are welcome (though they will be responsible for locating translations of texts read in French).

**Fren 5531 Sociolinguistics of French**

3 credit(s); credit will not be granted if credit received for: 3531; Ling 3001 or 5001, grad 
**Instructor:** Kerr, Betsy Jean

**Description:** Sociolinguistics is the study of language in its social contexts, and how languages vary in different contexts. After a brief introduction to the basic principles of language variation, we will consider the development and current state of linguistic ideology in France (e.g. what is the Académie Française, why is it important?) and how this ideology plays out in some current linguistic debates such as the predominance of anglicisms in contemporary French and the 1990 spelling reform. We will consider the diverse varieties of French that correspond to the various locations where French is spoken, with some attention to social and stylistic differences as well. Starting with regional differences within France, our itinerary will gradually move away from the metropole: first Belgium and Switzerland; then Canada, where we will spend some time tracing the history and current situation of French within the English-dominated North American continent; a brief look at French-based creoles and French in Africa; and finally, French in New England and in Louisiana. Our approach will be both external (what are the historical/cultural events and contexts that have affected language use?) and internal (what are the actual linguistic features that distinguish a particular variety of the language?). The course will present a broad survey; groups of undergraduate students will choose a topic of interest to research in depth for an in-class presentation and a final paper. Graduate students will write an individual research paper on a topic of their choice. Taught in French. Prereq: graduate student status or instructor permission; Fren 3015 or equivalent. Ling 5001 recommended, but not required.

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

**Grading:** 25% mid exam, 25% final exam, 30% special projects, 20% class participation.

**Exam Format:** short answer, essay, limited true-false

**Fren 8270 Critical Issues: Prose**

3 credit(s), max credits 12, 4 completions allowed; 
**Instructor:** Chaouat, Bruno

**Description:** "Writing Evil: The French Tradition". In his 1951 masterpiece L'Homme revolte, Albert Camus laid out the intellectual history of a metaphysical and historical rebellion that started in the mid-18th century and culminated with the totalitarianisms of the 20th century-fascism, Nazism and communism, via the French Revolution, the Russian nihilists and terrorists, the Russian revolution and the crimes of Stalinism. Within his "history of two hundred years of European pride," as he called it, Camus also proposed a philosophical approach to literary movements that are crucial to our understanding of a French literary modernity nurtured by a fascination in the Marquis de Sade (an author arguably rediscovered after the Second World war but in fact already an object of fascination in the mid-19th century). French literary modernity includes Baudelaire, Rimbaud, Lautreamont, Dandyism as antinomianism and rebellion against external law, and later on the Surrealist movement. To be sure Camus falls short of exploring the works of the poet of evil, Jean Genet, his contemporary. The nihilist and anti-Semitic novelist Louis-Ferdinand Celine is also missing from Camus's intellectual and literary history of metaphysical and esthetic rebellion. In this seminar we will read French literary modernity through the prism of metaphysical rebellion (rebellion against God, rebellion against Being) and the reclaiming of an esthetic of evil and transgression. We will draw on Camus's unique insights on metaphysics and his penetrating understanding of nihilistic and gnostic motifs in European modernity, and extend those insights to contemporary novelists such as Salim Bachi, Richard Millet or Pierre Jourde to show that the tradition of metaphysical rebellion has outlived Sade, Baudelaire and Lautreamont and penetrated deep into our contemporary era. We will read books by Jean Genet, Lautreamont, Charles Baudelaire, Albert Camus, Georges Bataille, Jean Giono, Pierre Jourde, Maurice Blanchot, Salim Bachi, Richard Millet; and excerpts from Eric Marty's Pourquoi le XXeme siecle a-t-il pris Sade au serieux, Michel Foucault Moi, Pierre Riviere,..., Georges Bataille "Reflexions sur le bourreau et la victime," Emmanuel Levinas's De l'existence a l'existant, Jacob Taubes's "Notes on gnosticism and Surrealism," Hans Jonas's on gnosticism, nihilism and existentialism, Millet's "Eloge litteraire d'Anders Breivik" and Salim Bachis's "Moi, Mohamed Merah."
Fren 8992 Directed Readings for Graduate Students
1-5 credit(s), max credits 25, 25 completions allowed;
Instructor: Wall-Romana, Christophe M
Description: Student may contact the instructor or department for information.

Fren 8994 Directed Research
1-5 credit(s), max credits 25, 25 completions allowed;
Instructor: Chaouat, Bruno
Description: Student may contact the instructor or department for information.

Fren 8994 Directed Research
1-5 credit(s), max credits 25, 25 completions allowed;
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 3211 History of Sexuality in Europe
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: HIST 3211;
Instructor: Clark, Anna Kirsten
Description:

GLBT 3301 Gay, Lesbian, Bisexual, and Transgender Social Movements in the United States
3 credit(s); Credit will not be granted if credit has been received for: GWSS 3501;
Instructor: Kumar, Elakshi
Description: This interdisciplinary course uses classroom lectures and discussion to examine the development of gay, lesbian, bisexual, and transgender (GLBT) social movements in the US. We will expand on popular images of the GLBT social movements by linking the context, goals, and outcomes of movements to the dynamics of race, class, gender, sexuality, age, ability, immigration status, and geography. Our goal will be to understand the ways that GLBT social movements have influenced and been influenced by cultural and governmental institutions, and how these relationships have determined the framing, participation, and legibility of movements. We also examine several contemporary issues that have inspired GLBT organizing, advocacy and public education. We will incorporate non-academic critical sources, video clips, films, guest speakers, community events into our learning environment.
Style: 25% Lecture, 10% Film/Video, 30% Discussion, 20% Small Group Activities, 15% Student Presentation, 5% Guest Speakers.
Grading: 20% mid exam, 30% final exam, 15% attendance, 15% reflection paper, 15% in-class presentation, 5% class participation.
Exam Format: Take Home Papers

GLBT 3456W Sexuality and Culture
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Hubbard, Kysa Koerner
Description: What is sexuality? Is it something natural and innate within us or is it something constructed and administered from the outside? Why do we care whether Bradley Cooper is gay, straight, or otherwise, or whether according to Star magazine? free and single Kim Kardashian participated in ?a wild sex orgy?? Does sexuality reveal the mystery of our ?essential being,? or does it reveal more about the cultural-historical moment defining it? We are shocked, shocked, shocked to see 4 year-old beauty queens or, as others have derisively called them, ?prosti-tots,? gyrating like strippers on stage, yet collectively we watch over and over again? courtesy of TLC, youtube and cable?news? ? the most salacious (I mean most shocking) parts! How is this related to our fascination with the televised ?capture? of accused ? predators?? Finally, how do we know if our sexual desires and experiences are ?normal?, and to whom or what do we turn for answers? Dr. Phil? Cosmo? Maxim? The DSM-IV? Looking beyond questions of representational truth, this course explores the modern history of sexuality in the West, examining and theorizing the relationship between the abstract, ever-changing ways in which we have understood it, and the concrete, material ways in which we have subsequently lived it. Readings will include the psychoanalytic writings of Sigmund Freud and Jessica Benjamin, the historical accounts of Thomas Laqueur and Patricia Hill Collins, and the historical-critical analyses of Michel Foucault and Anne Fausto-Sterling.
Style: 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.
Grading: 50% reports/papers, 10% quizzes, 20% written homework, 20% class participation.

GLBT 3472 Gay Men and Homophobia in American Culture
3 credit(s);
Instructor: Cannavino, Thomas Patrick
Description: "Sodomite," "invert," "deviant," "pervert," and "homosexual" are all terms that have been used in the West to name a kind of man who desires men or engages in sex with men, or both. This course focuses on a figure that emerged in the 1970s, following the riots at Stonewall in 1969: the "gay man." What does it mean to be "gay"? Is "queer" just a newer and edgier word that means the same thing or are there real differences between "gays," "queers," and "men who have sex with men"? How do these discursive constructs affect the ways we comprehend same-sex desire, the relationship between gender style and sexuality, and "homophobia" as a perversive reaction to effeminacy or gay sexuality? To approach these questions, we'll think critically about the ways the nineteenth-century invention of "sexuality" in the West has associated sexual desires and acts with a person's essential nature, as well as the strangely resilient nineteenth-century notion that male same-sex desire is a sort of "hermaphroditism of the soul," a joining together of feminine desires and a masculine body. We'll all do some original research in a major archive of GLBT history (right here on campus) over the course of the semester, and we'll study literature, visual culture, cinema, historical and cultural theory, and writings in public health and medicine as we interrogate why gay men and homosexuality are socially marginal but symbolically central, and thus capable of generating violent emotion and mobilizing elaborate means of censorship and containment.

Grading: 10% mid exam, 10% final exam, 20% reports/papers, 20% special projects, 20% journal, 20% class participation.

GLBT 3610 Topics in GLBT Studies: Family as Origin and Invention
3 credit(s), max credits 6;
Instructor: Cihlar, James Jay
Description: In Family as Origin and Invention we will read a selection of authors whose work examines the complicated subject of family in GLBTIQ experiences. A mix of modern classics and recent releases, our texts show characters rebelling against normative constructs while envisioning alternative lives. We will look at the families that we are born or adopted into and those we improvise, gravitate toward, or carefully assemble. Through reading, writing, and discussion, we will define family from multiple perspectives. Alison Bechdel's graphic memoir FUN HOME and Jeanette Winterson's memoir WHY BE HAPPY WHEN YOU COULD BE NORMAL? examine family as both origin and destination, the source that we rebel against with such force we come back around full circle, perhaps with greater compassion and understanding the second time around. In such "boarding house novels" as Jane Rule's THE YOUNG IN ONE ANOTHER'S ARMS, Alan Hollinghurst's THE LINE OF BEAUTY, and Armistead Maupin's TALES OF THE CITY we will see accidental relationships—lodgers, roommates, classmates, co-workers, neighbors, and friends—evolve into intentional communities or chosen families. Two novellas—Justin Torres's WE THE ANIMALS and James Baldwin's GIOVANNI'S ROOM—show how coming out transforms the definition of family, pushing it beyond conventional expectations. Kristin Naca's poetry book BIRD EATING BIRD demonstrates a cross-cultural, intra- and international sense of family, while Joy Ladin's poetry book TRANSMIGRATION notates the journey of the self from one gender to another in the context of family. We will write weekly reading journals or critical framing questions and two four-page papers. Final grades will be figured on the basis of fifty percent for papers, thirty percent for short writing assignments, and twenty percent for attendance and participation.

GLBT 4101 Gender, Sexuality, and Politics in America
3 credit(s);
Instructor: Fajardo, Kale Bantigue
Description: Student may contact the instructor or department for information.

GLBT 4232 Chicana/o - Latina/o Gender and Sexuality Studies
3 credit(s); Credit will not be granted if credit has been received for: CHIC 4232; Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Lopez Lyman, Jessica
Description: Explores critical thinking of Chicanas/os and Latinas/os around the construction of gender and the politics of sexual identity. Examines how the self is gendered in relationship to sexual, racial, class, and national identities under different social structural conditions. Considers the way in which the borders that define and confine sexual norms shift over time.

GLBT 4403 Queering Theory
3 credit(s);
Instructor: Carter, Angela
Description: Queer: Is it a noun? A person? An (anti) identity? A movement? A theory? Or, is it a verb? To queer. Queering: A process? A method? An approach? An (un-) doing? Theory: A conceptualization intended to explain something; an attempt at clarification, at bringing order and understanding to our selves and the world around us. As a class we will begin with this exploration of definition. What does the word queer mean? What can it mean? And where might these various meanings take us? Then, we will dig deeper and explore what it might mean to queer theory. What exactly does queering theory look like, and where might this kind of queering take us? Through reading both foundational and contemporary innovations in the interdisciplinary field generally known as ?queer studies,? this course will provide students with a framework for understanding queerness as an (anti) identity, practice, theory and politics. We will start from the idea that the instability of queerness - however paradoxical - is intellectually exciting and potentially, politically liberating. If queering, as an activity and orientation, starts by dismantling oppressive theories, ideologies, and other
normalizing devices? than it must also leave open the possibility of imagining and embracing other ways of being and knowing? Throughout the semester, we'll examine various modes of interdisciplinary queer theorizing that are striving to articulate a nuanced understanding of identity and society. Topics may include, but are not limited to, sexuality; gender/sex; family/kinship; bodies/embodiment; race/ethnicity/nation; time/space; and affect/emotion. Our aim will be to productively puzzle over these ideas and the implications of such theorizing on our daily lives. (Instructor approval for enrollment can be granted via email to students who have previously taken a GWSS or GLBT theory course.)

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

**Grading:** 15% mid exam, 15% final exam, 15% reports/papers, 10% special projects, 45% class participation.

**Gender, Women, and Sexuality Studies 425 Ford Hall**

**GWSS 1002 Politics of Sex**
3-4 credit(s), max credits 4, 1 completion allowed; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences  
**Instructor:** Desai, Jigna  
**Description:** The politics of sex are around us everyday -- in our laws, in our Facebook posts, and aired in heated political debates. In this course, we tackle some of the controversies associated with a variety of contemporary issues ranging from twerking and rape culture to racism and marriage. And we do it while having fun: we engage in debates, study laws, and create our own popular culture. As we do this, the course unravels how sex, gender, and sexuality, along with race and nationality, play important and complex roles in our societies and cultures. In this course we will assume that sexuality is inextricable from other categories of identity, and that sexuality is just as much about race, class, nationality, and gender as it is about sex. This course is for everyone -- psychology and engineering majors, literature and business majors. We all need to think about the politics of sex. The primary purpose of this class is to study different constructions of sex, gender, and sexuality with an emphasis on challenging the ways in which certain constructions are normalized and others marked as deviant or unnatural. In this way, we examine femininity and masculinity, homosexuality, bisexuality, and heterosexuality. In studying the relationship between what is considered normal and deviant, we can understand how our society categorizes and makes sense of individuals.  
**Style:** 40% Lecture, 10% Film/Video, 20% Discussion, 20% Small Group Activities.  
**Grading:** 25% mid exam, 35% final exam, 25% special projects, 15% class participation.  
**Exam Format:** Take home essay exams

**GWSS 1004 Screening Sex: Visual and Popular Culture**
3 credit(s); Meets CLE req of Arts/Humanities  
**Instructor:** STAFF  
**Description:** This is an introductory critical media literary course that approaches media analysis using feminist critique. The field of feminist media studies pays close attention to the ways that gender, race and sexuality are employed in popular culture and media throughout history to develop and reaffirm particular popular understandings of representation, group identification, subjectivity and citizenship. In addition, by analyzing the structure and politics of mainstream media representations this course will expose its students to forms of media that were produced in resistance to and outside of mainstream culture, to illustrate the possibilities and limitations of more socially conscious representations. We will explore the following major concepts: popular culture, spectatorship, technology, feminist critique, genre, the gaze and new media. Students will gain the skills needed to analyze and critique various forms of popular media to then engage in more rigorous and complex media analyses at a higher level.

**GWSS 1005 Engaging Justice**
3 credit(s); Meets CLE req of Civic Life and Ethics  
**Instructor:** Isoke, Zenzele  
**Description:** This course provides an interdisciplinary overview of how feminists have conceptualized, theorized, and critiqued ethics in relation to the politics of difference. Included in these are the ethics of care, reconciliation, forgiveness, and community restoration. We consider communicative understandings justice and politics that have roots outside of Western liberalism. Engaging Justice requires students to think about questions of fairness and justice with close attention paid to how social location, identity formation, and gendered hierarchies of difference inform politics and ethics. For example, we consider how women of color have developed oppositional discourses to challenge human rights abuses, environmental degradation, the legal vulnerability of non-citizens, and the abuse and denigration of sexual minorities across the globe. We also consider how feminists and queer people of color engage the politics of belonging, homemaking, and border-crossings, emphasizing how multiple, conflicting, and diverse human subjectivities inform diverse social and political practices. This course fulfills the liberal education requirement for diversity and civil life and ethics.  
**Style:** 30% Lecture, 10% Film/Video, 40% Discussion, 20% Small Group Activities.  
**Grading:** 20% mid exam, 20% final exam, 30% reports/papers, 15% attendance, 15% class participation.  
**Exam Format:** The mid-term and final exam will consist of two parts. Part 1 is in-class, multiple choice. Part 2 is a take-home essay exam.
This course is a critical engagement of Science Studies through the categories of race, gender, sex and sexualities, and the ways in which science and technology produce both liberatory and oppressive relations between and across species, genders, sexes, sexualities, races, abilities, and classes. It is an interdisciplinary course that will employ critical theories and histories, scientific data, popular cultural artifacts, and technology to examine the relationships between science and its social, political, and natural-cultural contexts. The methodological point of the course is to familiarize students with historical and contemporary scientific controversies, and to help them critically analyze scientific developments. The substantive point of the course is to make students aware of how feminist science studies restructures the fields of both critical theory and scientific practice. We will consider the ethical, epistemological, sociological, and material implications of a diverse range of topics, which I hope will pique your curiosity and engender new ways of thinking, creating, and transforming the sciences.
GWSS 3306 Pop Culture Women
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Isoke, Zenzele
Description: This undergraduate course will provide a comprehensive overview of contemporary cultural critiques of gender, sexuality, and hetero-patriarchy by scholars and activists of the hip-hop generation. We will consider the use of hip-hop as a form of cultural and political activism that forces Americans to confront key social justice issues including: sexual and gender violence, homophobia, and destructive representations of black and brown masculinities and femininities in the U.S. and Arab Regions. We will explore how hip hop has sparked and enabled protest and translocal movement making. The heavy interplay between race, gender, sexuality, and the criminalization of people of color in mainstream media is a core theme that will be revisited throughout the course. Students will learn to reject the tendency to equate hip hop with rap music. Instead, we explore the ways that hip hop has shaped the culture, aesthetics, experiences, and perspectives of an emergent generation of social critics who aim to challenge large scale social inequalities in national and transnational contexts. This course will showcase the perspectives of hip hop feminists: female and transgender writers, performers, activists, students, and teachers who have come of age in the era of hip hop, and who courageously attempt to politicize the presence of the gendered body, standpoint, and worldview within and beyond the original four elements of the genre (rap, graffiti, emceeing, dee-jaying).

GWSS 3307 Feminist Film Studies
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Kaminsky, Amy K
Description: The first part of this course will be devoted to reading foundational essays in feminist film theory. In lecture and discussion we’ll look at film clips, mostly from Hollywood productions, that illustrate the ideas presented in the articles. We will go on to read work by later theorists as a way to think about non-narrative and experimental film by women directors, questions of race and sexuality, and film made outside the US. In this section of the class, we will focus more closely on the film texts themselves, and we will screen films in their entirety.
Style: 50% Lecture, 20% Film/Video, 15% Discussion, 10% Small Group Activities, 5% Guest Speakers.
Grading: 25% mid exam, 40% final exam, 35% reflection paper. attendance is mandatory 5 one-to-two page reflection papers
Exam Format: first exam-short answers final exam-take home essay

GWSS 3307 Feminist Film Studies
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Nunez, Joanna
Description: The first part of this course will be devoted to reading foundational essays in feminist film theory. In lecture and discussion we’ll look at film clips, mostly from Hollywood productions, that illustrate the ideas presented in the articles. We will go on to read work by later theorists as a way to think about non-narrative and experimental film by women directors, questions of race and sexuality, and film made outside the US. In this section of the class, we will focus more closely on the film texts themselves, and we will screen films in their entirety.
Style: 50% Lecture, 20% Film/Video, 15% Discussion, 10% Small Group Activities, 5% Guest Speakers.
Grading: 25% mid exam, 40% final exam, 35% reflection paper. attendance is mandatory 5 one-to-two page reflection papers
Exam Format: first exam-short answers final exam-take home essay

GWSS 3406 Gender, Labor, and Politics
3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: Torres PhD, Eden E.
Description: This course explores historical developments and contemporary manifestations of women’s participation in the labor force and the global economy. It looks at gender as a socially constructed category that intersects and overlaps with race, class, ethnicity and nationality among other things in determining what it means to participate in the labor force and in setting up expectations for wages. It contemplates gender as a condition for the creation and maintenance of an
exploitable category of workers, as well as the way in which people’s choices are shaped in various geographical and cultural locations. Our study includes an examination of the way people respond to gender oppression, police each other for compliance to mainstream expectations, submit to oppression for a variety of socioeconomic reasons, and/or develop a political consciousness of their social locations to become labor organizers and activists.

**Style:** 20% Lecture, 60% Discussion, 10% Small Group Activities, 10% Student Presentation.

**Grading:** 30% reports/papers, 20% attendance, 20% reflection paper, 20% in-class presentation, 10% class participation. Quizzes are part of participation/attendance grade.

GWSS 3408 Women in Modern America

3 credit(s); Credit will not be granted if credit has been received for: HIST 3348;

**Instructor:** Jahinke-Wegner, Joanne M

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

GWSS 3409W Asian American Women's Cultural Production

3 credit(s); Credit will not be granted if credit has been received for: AAS 3409W; Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive

**Instructor:** Ye, Twiggy Shana

**Description:** Who are Asian American women? How are Asian American women represented in today's pop culture? How has such an identity been configured and reconfigured in the American context? What does it mean to be an Asian American woman in the United States? This writing intensive course investigates ways in which Asian American women's cultural production complicates, challenges, and reinforces dominant modes of knowledge production about Asians and Asian American women in the United States, via surveying various forms of cultural production, including novels, memory, literature criticism, films and arts. Students will explore the relations between power, identity and cultural production by studying how race, gender, class, sexuality, immigration and ethnicity are historically produced in intersected ways. Students are strongly encouraged to bring in lived experience to challenge the dominant lens of history and culture that have rendered Asian American women invisible or produced distorted representations.

**Style:** 25% Lecture, 10% Film/Video, 40% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Field Trips.

**Grading:** 30% reports/papers, 30% special projects, 10% attendance, 20% in-class presentation, 10% class participation.

GWSS 3413 Women and Gender in Latin American History

3 credit(s); Credit will not be granted if credit has been received for: HIST 3424; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives

**Instructor:** Chambers, Sarah C

**Description:** The history of women in Latin America offers many surprises. In 1620, when swashbuckling soldier Francisco de Loyola was arrested in Peru, s/he came out as Catalina de Erauso, a runaway from a Spanish convent. Almost 300 years later, Angel/a Jimenez similarly donned men's clothing to fight in the Mexican revolution. Other Latin American women embraced their identity as mothers, but then took to the streets to protest military dictatorships. This course examines changing gender norms in Latin America, from Aztec times to the present, as compared to the lives of real women and men of diverse classes and ethnic groups: nuns and witches, slaves and factory workers, feminists and socialists. In addition to historical articles, we will read literature, memoirs, and first-person testimonials. This course fulfills the historical perspectives and global perspectives requirements.

**Style:** 60% Lecture, 10% Film/Video, 30% Discussion.

**Grading:** 15% mid exam, 20% final exam, 40% reports/papers, 5% quizzes, 20% class participation.

GWSS 3469 History of Women and family in China, 1600-2000

3 credit(s); Credit will not be granted if credit has been received for: HIST 3469;

**Instructor:** Wang, Liping

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

GWSS 3501 Gay, Lesbian, Bisexual and Transgender Social Movements in the United States

3 credit(s); Credit will not be granted if credit has been received for: GLBT 3301;

**Instructor:** Kumar, Elakshi

**Description:** This interdisciplinary course uses classroom lectures and discussion to examine the development of gay, lesbian, bisexual, and transgender (GLBT) social movements in the US. We will expand on popular images of the GLBT social movements by linking the context, goals, and outcomes of movements to the dynamics of race, class, gender, sexuality, age, ability, immigration status, and geography. Our goal will be to understand the ways that GLBT social movements have influenced and been influenced by cultural and governmental institutions, and how these relationships have determined the framing, participation, and legibility of movements. We also examine several contemporary issues that
have inspired GLBT organizing, advocacy and public education. We will incorporate non-academic critical sources, video clips, films, guest speakers, community events into our learning environment.

**Style:** 25% Lecture, 10% Film/Video, 30% Discussion, 15% Small Group Activities, 15% Student Presentation, 5% Guest Speakers.

**Grading:** 20% mid exam, 30% final exam, 15% attendance, 15% reflection paper, 15% in-class presentation, 5% class participation.

**Exam Format:** Take Home Papers

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**GWSS 3615W Women in European History: 1500 to the Present**

3 credit(s); Credit will not be granted if credit has been received for: HIST 3615W; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive

**Instructor:** Maynes, Mary Jo

**Description:**

This graduate seminar aims to acquaint students with key concepts and debates in feminist theory, emphasizing specific histories of nation, race, and class, rather than examining gender in isolation. For the course, students will be asked to draw upon their own disciplinary and interdisciplinary expertise and interests to analyze how feminist theory delimits the study of women as well as how it can be advanced to create social change. Topics will include, but are not limited to, the existential nature of Woman; the politics of housework, sex work, and gendered divisions of labor; liberalism and social contract theory; and historical materialism. To introduce the diversity of feminist projects, course

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**GWSS 4402 Rebels, Radicals, and Revolutionaries: History of Western Feminisms**

3 credit(s), max credits 4, 1 completion allowed;

**Instructor:** Giusti, Jessica

**Description:**

This course has long been titled, "Rebels, Radicals and Revolutionaries: The History of Western Feminism," but in this class we will attempt to disrupt and deconstruct this title as an object of debate and center our discussion around critiquing what this title implies. Rather than assuming that there is such as thing as the "history of western feminism," which tells the tale of rebels, radicals and revolutionaries who progress through feminism's various waves, this course raises the question as to who benefits from such a narrative, who is excluded, and why. In other words, we will deconstruct not only the wave narrative and the whiteness of western feminism, but we will also attempt to deconstruct the project of history itself. Further, this course will critically examine the many ways in which marginalized women and groups have been excluded (or exploitatively included) in contemporary western history and engage the voices, histories, and actions of feminists from across a wide breadth of identities and social locations. We will read for and across "difference" in order to disrupt the notion of western feminism as a monolith and to further illuminate the less renowned, but undoubtedly extraordinary, feminists and feminisms we encounter creating change on a daily basis. This course will be discussion-based and will rely heavily on close readings, rich conversation, and a collaborative environment to discuss a variety of exciting texts.

**Style:** 20% Lecture, 10% Film/Video, 35% Discussion, 20% Small Group Activities, 15% Student Presentation.

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**GWSS 4403 Queering Theory**

3 credit(s); Any GWSS or GLBT course Credit will not be granted if credit has been received for: GWSS 5503;

**Instructor:** Carter, Angela

**Description:**

Queer: Is it a noun? A person? An (anti) identity? A movement? A theory? Or, is it a verb? To queer. Queering: A process? A method? An approach? An (un-) doing? Theory: A conceptualization intended to explain something; an attempt at clarification, at bringing order and understanding to our selves and the world around us. As a class we will begin with this exploration of definition. What does the word queer mean? What can it mean? And where might these various meanings take us? Then, we will dig deeper and explore what it might mean to queer theory. What exactly does queering theory look like, and where might this kind of queering take us? Through reading both foundational and contemporary innovations in the interdisciplinary field generally known as "queer studies," this course will provide students with a framework for understanding queerness as an (anti) identity, practice, theory and politics. We will start from the idea that the instability of queerness - however paradoxical - is intellectually exciting and potentially, politically liberating. If queering, as an activity and orientation, starts by dismantling oppressive theories, ideologies, and other normalizing devices - than it must also leave open the possibility of imagining and embracing other ways of being and knowing? Throughout the semester, we will examine various modes of interdisciplinary queer theorizing that are striving to articulate a nuanced understanding of identity and society. Topics may include, but are not limited to, sexuality; gender/sex; family/kinship; bodies/embodiment; race/ethnicity/nation; time/space; and affect/emotion. Our aim will be to productively puzzle over these ideas and the implications of such theorizing on our daily lives. (Instructor approval for enrollment can be granted via email to students who have previously taken a GWSS or GLBT theory course.)

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

**Grading:** 15% mid exam, 15% final exam, 15% reports/papers, 10% special projects, 45% class participation.

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**GWSS 8210 Seminar: Feminist Theory & Praxis: Women and Work**

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

**Instructor:** Hill, Annie

**Description:**

This graduate seminar aims to acquaint students with key concepts and debates in feminist theory, focusing on the history of women in the work force, the nature of work, the relations of women and men to the labor market, and the role of women in a market economy. The seminar emphasizes specific histories of nation, race, and class, rather than examining gender in isolation. For the course, students will be asked to draw upon their own disciplinary and interdisciplinary expertise and interests to analyze how feminist theory delimits the study of women as well as how it can be advanced to create social change. Topics will include, but are not limited to, the existential nature of Woman; the politics of housework, sex work, and gendered divisions of labor; liberalism and social contract theory; and historical materialism. To introduce the diversity of feminist projects, course
readings will reflect a range of methodologies, theoretical perspectives, and rhetorical styles. The readings, whilst wide-ranging, resonate with one another on crucial questions and track feminist theory from the twentieth century to the present. Students are encouraged to play an active role in generating productive sites of inquiry and interrogation. NB: The only prerequisite is graduate student standing. No permission number is required. Please contact the instructor if you encounter difficulties when enrolling in the course.

GWSS 8230 Seminar: Cultural Criticism and Media Studies: How to Read Like a Feminist
3 credit(s), max credits 6;
Instructor: Kaminsky, Amy K
Description: This seminar addresses feminist reading practices. We begin with questions raised by early feminist literary scholars concerning the nature and ethics of feminist reading, the relationship of the feminist reader to the literary canon, the conditions that make reading and writing possible, experimentations with language, and literary archeology (i.e., digging up a usable past). We then consider two methods of particular use to feminist literary analysis: close reading and symptomatic reading. We go on to address the uses and limitations of intersectionality as a method of literary analysis, the possibilities of lesbian reading, and ways that methods of literary analysis can be applied to non-literary texts. We end with a discussion of the pleasure of reading. Readings include literary and scholarly texts.
Style: Students, working in pairs, will be responsible for presenting readings and leading class discussion each week. Each pair will decide on the format.
Grading: 50% reports/papers, 40% reflection paper, 10% in-class presentation.

GWSS 8996 Feminist Studies Colloquium
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Squires, Catherine R
Description: Student may contact the instructor or department for information.

General Dentistry 15-209 MoosT

GenD 5153 Advanced General Dentistry Seminar III
S-N only, 2-10 credit(s), max credits 10, 1 completion allowed;
Instructor: Gambucci, James Robert
Description: Student may contact the instructor or department for information.

GenD 5256 Advanced General Dentistry Clinic III
S-N only, 5-15 credit(s), max credits 15, 1 completion allowed;
Instructor: Gambucci, James Robert
Description: Student may contact the instructor or department for information.

GenD 5263 Advanced General Dentistry Clinical Administration III
S-N only, 1-10 credit(s), max credits 10, 1 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 6256 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
GCD 3022 Genetics

3 credit(s); BIOL 1002 or BIOL 1009
Credit will not be granted if credit has been received for: BIOL 4003;
Instructor: Kirkpatrick, David T
Description: This course is designed to provide students with a working knowledge of genetics. The first part of the course covers basic Mendelian genetics, focusing on patterns of inheritance. The middle of the course covers molecular genetics, emphasizing the mechanisms behind the storage, duplication, and utilization of information in the cell. The final section covers current genomic technology, genetic aspects of development and human disease, and the genetics of populations. The course is designed for students who are not College of Biological Sciences majors; CBS majors should take Biol4003.
Style: 90% Lecture, 5% Film/Video, 5% Discussion.
Grading: 4 exams, including the final, each worth 100 points. 4 pop quizzes, each worth 15 points, with the lowest quiz dropped.
Exam Format: Approximately 60 points of multiple choice, the rest short answer.

GCD 3022 Genetics

3 credit(s); BIOL 1002 or BIOL 1009
Credit will not be granted if credit has been received for: BIOL 4003;
Instructor: Marahrens, York H
Description: Student may contact the instructor or department for information.

GCD 3033 Principles of Cell Biology

A-F only, 3 credit(s);
Instructor: Neufeld, Thomas Peter
Description: Introduction to the components and activities common to eukaryotic cells. Focus on structures such as chromosomes, membranes, organelles and the cytoskeleton, and processes including cellular communication, replication, motility, transport and gene expression. Emphasis on relevance to human health and medicine. Appropriate for non-CBS majors.

GCD 3033 Principles of Cell Biology

A-F only, 3 credit(s);
Instructor: Luxton, G.W. Gant
Description: Introduction to the components and activities common to eukaryotic cells. Focus on structures such as chromosomes, membranes, organelles and the cytoskeleton, and processes including cellular communication, replication, motility, transport and gene expression. Emphasis on relevance to human health and medicine. Appropriate for non-CBS majors.

GCD 3485 Bioinformatic Analysis: Introduction to the Computational Characterization of Genes and Proteins

A-F only, 3 credit(s);
Instructor: Matthes, David J
Description: Students in this practical and hands-on course learn how to use computer applications for the manipulation and analysis of DNA, RNA, and protein sequences. Each student works with a human gene/protein of unknown function that they choose at the beginning of the semester. Over the course of the semester students carry out a complete bioinformatic analysis of their gene/protein, becoming the world-expert on it in the process. There are no quizzes or exams. Instead students have structured "problem sets" of analyses to carry out on their gene/protein and four scheduled individual meetings outside of class with the instructor to present their work on these and receive feedback to allow them to improve or extend their work. As a culminating experience students present their work to the class and write the Wikipedia page on their gene/protein.
Style: 25% Lecture, 10% Discussion, 25% Laboratory, 5% Student Presentation, 35% Demonstration.

GCD 4005W Cell Biology - Writing Intensive
A-F only, 4 credit(s); GCD major, [BioC 3021 or BioC 4331], [Biol 4003] Credit will not be granted if credit has been received for: BIOL 4004; Meets CLE req of Writing Intensive
Instructor: Koepp, Deanna
Description:

GCD 4025 Cell Biology Laboratory
2 credit(s);
Instructor: Norrander PhD, Jan Marie
Description:

GCD 4034 Molecular Genetics
3 credit(s);
Instructor: Bardwell, Vivian June
Description: Student may contact the instructor or department for information.

GCD 4111 Histology: Cell and Tissue Organization
4 credit(s);
Instructor: Norrander PhD, Jan Marie
Description:

GCD 4134 Endocrinology
3 credit(s);
Instructor: Iwanij, Victoria
Description: Student may contact the instructor or department for information.

GCD 4143 Human Genetics
3 credit(s);
Instructor: Oetting, William Starr
Description:

GCD 4151 Molecular Biology of Cancer
A-F only, 3 credit(s);
Instructor: Starr, Tim
Description:

GCD 4171 Stem Cells in Biology and Medicine
A-F only, 3 credit(s); BIOL 4003, [BIOL 4004 or Concurrent registration is required (or allowed) in BIOL 4004 or instructor consent] Credit will not be granted if credit has been received for: SCB 8181;
Instructor: Simon, Jeffrey A
Description:

GCD 4793W Directed Studies: Writing Intensive
S-N only, 1-7 credit(s), max credits 7, 7 completions allowed; Meets CLE req of Writing Intensive
Instructor: Shaw, Jocelyn E
Description: Student may contact the instructor or department for information.

GCD 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; Meets CLE req of Writing Intensive
Instructor: Van Ness, Brian George
Description: Student may contact the instructor or department for information.

GCD 4993 Directed Studies
S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
Instructor: Muscoplat, Charles Craig
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;
Instructor: O'Conner, Michael Donald
Description: Student may contact the instructor or department for information.

GCD 8008 Mammalian Gene Transfer and Expression
A-F only, 2 credit(s);
Instructor: Mc Ivor, R Scott
Description: Student may contact the instructor or department for information.

GCD 8014 Small RNA Biology
A-F only, 2 credit(s);
Instructor: Subramanian PhD, Subree
Description: Student may contact the instructor or department for information.

GCD 8073 Advanced Human Genetics
3 credit(s);
Instructor: Koob, Michael D
Description: Student may contact the instructor or department for information.

GCD 8131 Advanced Genetics and Genomics
3 credit(s);
Instructor: Greenstein, David I.
Description: Literature-based. Modern genetic and genomic analysis, including mutant screens, characterization of multiple alleles, gene mapping and cloning, genome sequencing, intergenic interactions, transposable elements, genetic mosaics, epigenetics, and molecular mechanisms of recombination.

GCD 8161 Advanced Developmental Biology
3 credit(s);
Instructor: Greenstein, David I.
Description: This course considers key events and concepts in the development of vertebrate and invertebrate embryos through the detailed study of journal articles from the primary literature. Topics include gastrulation, left/right patterning, neural induction, segmentation, organogenesis, maternal determinants, axial patterning, growth control, and developmental timing. By completing reading summaries, participating in class discussion, and composing written paper critiques, students will become familiar with current findings in developmental biology, learn to critically read and discuss the literature, and become fluent with developmental terms and experimental approaches. As a discussion-based course, class attendance is mandatory.
Style: 67% Lecture, 33% Discussion.
Grading: 37% mid exam, 12% final exam, 12% reports/papers, 25% written homework, 12% in-class presentation.
Exam Format: take home

GCD 8900 Seminar
S-N only, 1-2 credit(s), max credits 8, 4 completions allowed;
Instructor: Somia, Nikunj V
Description: Student may contact the instructor or department for information.

GCD 8912 Genetic Counseling in Practice
A-F only, 4 credit(s);
Instructor: Zierhut, Heather
Description: Student may contact the instructor or department for information.

GCD 8914 Ethical and Legal Issues in Genetic Counseling
GCD 8920 Special Topics: Genetics and Reproduction: Law and Ethics
A-F only, 2 credit(s);
Instructor: Van Ness,Brian George
Description: Student may contact the instructor or department for information.

GCD 8993 Directed Studies
1-5 credit(s), max credits 15, 15 completions allowed;
Instructor: Bower,Matt
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;
Instructor: LeRoy,Bonnie S
Description: Student may contact the instructor or department for information.

Geographic Information Science 414 Social Science Building

GIS 5530 GIS Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: McMaster,Susanna Akiko
Description: This course allows students in the Master of Geographic Information Science program to earn internship credits toward their degree program. The objective is to gain practical hands-on GIS experience while solving problems in a real-world work environment. Students earn credits by working with a MGIS faculty sponsor as well as a site supervisor.
Style: Primarily on-site work with some time spent during the term meeting with faculty sponsor.
Grading: Grading is determined by completing a GIS 5530 contract agreement with the MGIS faculty sponsor.

GIS 5572 ArcGIS II
3 credit(s);
Instructor: Lindberg,Mark B
Description: This is the second course in a series (following GIS 5571) and continues our examination of ArcGIS Desktop. Our attention will focus on four areas: 1) an overview of ArcGIS functionality; 2) design and construction of geodatabases; 3) Python scripting for ArcGIS; and 4) enterprise GIS. Students completing this course will be able to work independently at an advanced level with ArcGIS Desktop.
Style: 20% Lecture, 20% Discussion, 30% Laboratory, 5% Small Group Activities, 5% Student Presentation, 20% Demonstration.
Grading: 30% special projects, 20% class participation, 50% laboratory evaluation.

GIS 5575 Practical Surveying for GIS
2 credit(s);
Instructor: Morey,Richard Edmund
Description: Student may contact the instructor or department for information.

GIS 5577 Spatial Database Design and Administration
3 credit(s);
Instructor: Kne,Len
Description: GIS 5577 will cover several broad topics, (1) basic spatial database design, (2) spatial queries, and (3) spatial database administration. This is an applied course that exposes students to two spatial databases (Postgres + PostGIS and Esri SDE server). The lab component will have people installing and managing spatial databases, as well as writing spatial queries. The typical student taking the class will have completed several GIS classes, but not have much exposure to databases.
Style: 50% Lecture, 50% Laboratory.
GIS 5578 GIS Programming
3 credit(s);
Instructor: Swobodzinski, Martin
Description: Programming techniques using Python in the context of ArcGIS 10 (ArcPy and Model Builder). Lecture and hands-on lab component. Graded and ungraded lab challenges and graded (individual or two-person group) final project (paper) in the research area of interest identified by the students. No prior programming experience necessary but prior experience with ArcGIS expected.

GIS 8990 Research Problems in GIS
A-F only, 1-6 credit(s), max credits 6, 3 completions allowed;
Instructor: Lindberg, Mark B
Description: Student may contact the instructor or department for information.

GIS 8990 Research Problems in GIS
A-F only, 1-6 credit(s), max credits 6, 3 completions allowed;
Instructor: Kne, Len
Description: Student may contact the instructor or department for information.

GIS 8990 Research Problems in GIS
A-F only, 1-6 credit(s), max credits 6, 3 completions allowed;
Instructor: McMaster, Susanna Akiko
Description: Student may contact the instructor or department for information.

GIS 8990 Research Problems in GIS
A-F only, 1-6 credit(s), max credits 6, 3 completions allowed;
Instructor: Harvey, Francis
Description: Student may contact the instructor or department for information.

GIS 8990 Research Problems in GIS
A-F only, 1-6 credit(s), max credits 6, 3 completions allowed;
Instructor: Manson, Steven M.
Description: Student may contact the instructor or department for information.

Geog 1301W Our Globalizing World
4 credit(s); Credit will not be granted if credit has been received for: GEOG 1301V; Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: STAFF
Description: INSTRUCTOR: Assistant Professor Kate Derickson It is common today to talk about living in a global world and for much of our lives the world has been nothing a global world. Why then a course on globalization? First, it is important to think about the forces that have come to shape other world we live in. We need to ask why is the world economy organized the way it is? How is our security tied into the development of global geopolitics? Is global culture wiping away the differences between places? Second, we need to look at how globalization continues to shape the world we live in. Global connections between places are constantly changing. The forces of globalization continue to have an impact on our lives and our livelihoods; they continue to shape the lives and livelihoods of others. The possibilities that people in different parts of the world and of different situations have for a good life is very much tied to the nature, the density and the profound unevenness of global connections. Geography is a discipline particularly suited for the study of globalization because of its focus on the spatial dimensions of globalization. Attending to this dimension gives the geographer a unique ability to understand the connections and differences between places, the way that these geographical relations shape our experience of the world, and what it means to live in a world in which our everyday lives are lived amid relations that stretch around the world. Geography involves more than asking `where?, it also involves asking how and why places are like they are, and seeks to understand the geographical processes and relations that made them that way. It involves understanding the world `in the making?. Not just a `global? world, but a world that is dynamic and continuously changing. Not just a world of differences, but a world in which differentiation is continuously occurring: a globalizing world. Instructor: Assistant Professor Kate Derickson

Geog 1372 Geography of Global Cities
3 credit(s); Credit will not be granted if credit has been received for: GLOS 1672; Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: STAFF
Description: Course Instructor: Laura Cesafsky Humans are now an urban species, and this is no small thing. Modern urbanization marches on, a whirlwind transformation of social organization that is implicated in some of the most intractable problems of contemporary life—the tremendous socioeconomic inequality at all scales and the prolific degradation of the natural world, to be sure. ?Global Cities? is a big topic, and in this class we will anchor ourselves in analyses of built environments in real cities across the globe. In so doing, we will develop a vocabulary for thinking politically about the ?stuff? of the city?its forms, natures, neighborhoods, buildings, and conduits. By looking comparatively at cities? differential physical characteristics, especially along the troubled axis of ?developed? Global North and ?developing? Global South, we will learn how the urban environments reflect and reproduce broader social processes: capitalism, racism, homophobia, and colonialism. On a more positive note, we discuss the cultural and political renaissance urban life is currently enjoying. In light of the Arab Spring and other recent city-centered democratic upheavals, there is a renewed sense today that the spaces and networks of the city are crucial to any project of egalitarian political transformation. What is more, while cities were long seen as unmitigated ecological and social disasters, global urbanization is increasingly imagined as engendering solutions to some of the very same problems it creates. The trick, of course, will be to design our urban environments better. So we will look critically at how cities from Medellin to Detroit have been shaped into ?laboratories? for the testing of the social and environmental capacities of new urban objects and forms.

Grading: 2 exams 5 reaction papers 1 Map Quiz 1 special project 2 Fieldwork essays 1 Research Paper

Geog 1403 Biogeography of the Global Garden
4 credit(s); Meets CLE req of Biological Sciences; meets CLE req of Environment
Instructor: Kipfmueller, Kurt
Description: Have you ever wondered why northern Minnesota has an abundance of forests while the southwestern portion is composed of mostly grasslands? Why is it that deserts have such a unique array of organisms? Why is there so much biological diversity in tropical rainforests? A wide variety of plants and animals exist on Earth and many different factors control why different places have different communities of species. The geographies of plants and animals constantly change, contributing to the evolving biological diversity of places at both global and local scales. This course examines the spatial and temporal arrangement of plants and animals and the factors that shape these distributions. The course emphasizes the investigation of the linkages between abiotic and biotic systems including the influence of climate, soil, biotic interactions, and landscape configurations on biological diversity. In laboratory sections, students will make observations, and use mapping and computer-based technology to test hypotheses about the distributions and spatial behavior of plants and animals. The exercises will help students to understand (1) how the interactions of organisms with their environment vary geographically, and (2) how factors, such as climates and soils, control biotic distributions.

Style: 80% Lecture, 20% Discussion.
Grading: 60% quizzes, 30% laboratory evaluation, 10% other evaluation.

Geog 1403 Biogeography of the Global Garden
4 credit(s); Meets CLE req of Biological Sciences; meets CLE req of Environment
Instructor: Li, Xiaolu
Description: Student may contact the instructor or department for information.

Geog 1403 Biogeography of the Global Garden
4 credit(s); Meets CLE req of Biological Sciences; meets CLE req of Environment
Instructor: Van Meter, Kevin
Description: Student may contact the instructor or department for information.

Geog 1425 Introduction to Meteorology
4 credit(s); High school algebra Credit will not be granted if credit has been received for: ESPM 1425; Meets CLE req of Environment; meets CLE req of Physical Sciences
Instructor: STAFF
Description: This course will introduce students to the fundamentals of weather and climate, including: the earth-sun relationship, seasons, atmospheric processes, weather maps, extreme/hazardous weather, and climate change. Lab sections will be somewhat applied, hands-on, and will utilize the outdoors regularly. The class fulfills requirements as a 4-credit, General Physical Sciences/Lab course, and satisfies the Liberal Education ?Environment? theme.

Style: 60% Lecture, 10% Film/Video, 30% Laboratory.
Grading: 30% mid exam, 25% final exam, 45% laboratory evaluation. Grading: mid-term 1: 15%, mid-term 2: 15%, Final: 25%, lab assignments: 45%

Geog 1502 Mapping Our World
3 credit(s); Meets CLE req of Social Sciences; meets CLE req of Technology and Society
Instructor: STAFF
Description: INSTRUCTOR: Assistant Professor Martin Swobodzinski We will learn about mapping our world by understanding how maps work, making our own maps, mapping virtual worlds like Facebook, and understanding how people use maps to tell stories and lies. Along the way, we will see how mapping is a useful lens through which to understand interactions between technology and society. This class fulfills TWO LE requirements, the Social Sciences
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 Social Sciences
Instructor: STAFF
Description: The aim of this course is to provide students with a multi-disciplinary understanding of and appreciation for human population phenomena and problems in different parts of the world and at different geographic scales?from the local to the global. This involves an investigation of the different components of population change - fertility, mortality and migration of human populations - and an engagement with different, often competing, explanations of these population phenomena that have been offered by social scientists. One of the major learning objectives is to create an awareness that in order to understand and explain population phenomena and problems in different places and countries of the world we have to become knowledgeable about the economic, political, social, cultural and environmental context within which these take place and the importance of the nature of interactions between different parts of the world. Throughout the course, particular emphasis is placed on understanding and critically reflecting on a) contemporary population problems at the global, national and local scale, including the world population explosion, both dramatic decline and persistence of high levels of fertility in parts of the developing world, record-low fertility and population aging in highly industrialized countries, the HIV-AIDS epidemic and major health problems, environmental disasters and population health, increasing levels of international migration, refugee crises, massive rural to urban migrations in the less developed world; b) policies adopted to address these problems such as family planning policies to reduce fertility levels and immigration policies; and c) the gender dimension of contemporary population problems and policies. In addition, students will learn about basic sources, measures, and methods of representation used in the study of human population phenomena, and gain basic skills and experience in data analysis, interpretation, and writing research reports.

Exam Format: Exams are multiple choice and offered during the semester (in other words, no final exam). The two-page lab project is done in the final weeks of the course.

Style: 30% Lecture, 20% Discussion, 20% Small Group Activities, 30% Web Based.
Grading: 15% mid exam, 15% final exam, 15% special projects, 10% class participation, 45% laboratory evaluation.

Geog 3371W Cities, Citizens, and Communities
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive
Instructor: Henderson, George Lawlor
Description: This course is about how the diversity of urban experience in the U.S. is structured by relations of class, race/ethnicity, gender, and sexuality. We will look at why the city--why urbanization as a distinctive process--shapes these social structures in particular ways. Especially important is the city as a crucial locus for capitalism as a dominant value system that is inscribed on the built landscape and that relies upon and fosters social differences. Through discussion, lecture, case study readings, and writing projects we will try to come to a more layered understanding of what makes the American city tick.
Style: 50% Lecture, 5% Film/Video, 25% Discussion, 20% Small Group Activities. There will be opportunities for student presentations of research.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: Exams are a combination of short answer and long essay.

Geog 3374W The City in Film
4 credit(s); Credit will not be granted if credit has been received for: GEOG 5374W; Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive
Instructor: Henderson, George Lawlor
Description: The City in Film brings together the history of film with the history of cities worldwide. We will look at how particular types of film (e.g. mysteries, action/suspense, documentary), as well as the language of film itself (e.g. cinematography, editing, sound), are suited for portraying aspects of urbanization and urban life.
Style: 20% Lecture, 60% Film/Video, 20% Discussion. Films are shown weekly, preceded by lecture.
Grading: 80% reports/papers, 20% class participation.

Geog 3381W Population in an Interacting World
4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: STAFF
Description: The aim of this course is to provide students with a multi-disciplinary understanding of and appreciation for human population phenomena and problems in different parts of the world and at different geographic scales?from the local to the global. This involves an investigation of the different components of population change - fertility, mortality and migration of human populations - and an engagement with different, often competing, explanations of these population phenomena that have been offered by social scientists. One of the major learning objectives is to create an awareness that in order to understand and explain population phenomena and problems in different places and countries of the world we have to become knowledgeable about the economic, political, social, cultural and environmental context within which these take place and the importance of the nature of interactions between different parts of the world. Throughout the course, particular emphasis is placed on understanding and critically reflecting on a) contemporary population problems at the global, national and local scale, including the world population explosion, both dramatic decline and persistence of high levels of fertility in parts of the developing world, record-low fertility and population aging in highly industrialized countries, the HIV-AIDS epidemic and major health problems, environmental disasters and population health, increasing levels of international migration, refugee crises, massive rural to urban migrations in the less developed world; b) policies adopted to address these problems such as family planning policies to reduce fertility levels and immigration policies; and c) the gender dimension of contemporary population problems and policies. In addition, students will learn about basic sources, measures, and methods of representation used in the study of human population phenomena, and gain basic skills and experience in data analysis, interpretation, and writing research reports.

Exam Format: Exams are multiple choice and offered during the semester (in other words, no final exam). The two-page lab project is done in the final weeks of the course.

Style: 100% Lecture.
Grading: 60% mid exam, 30% final exam, 10% reports/papers.
Geog 3511 Principles of Cartography
A-F only, 4 credit(s);
Instructor: Lindberg, Mark B
Description: The course provides a general introduction to cartography (broadly defined). Our primary emphasis will be on map making, with lesser emphases on cartographic research and the history of cartography. Lectures will focus on modern cartographic design principles and how they were developed. Lab assignments help develop skills using digital tools for producing effective maps. Cartography is a very old discipline and over the centuries a particular map vocabulary was developed. By the end of the course you will have a good understanding of this vocabulary and how it impacts your ability to make maps that are both attractive and effective.
Style: 60% Lecture, 40% Laboratory.
Grading: 20% mid exam, 20% additional semester exams, 10% class participation, 50% laboratory evaluation.
Geog 3523 Digital Mapping: Introduction to Making Online Maps for the Humanities and Sciences  
3 credit(s);  
Instructor: Harvey, Francis  
Description: Digital Mapping focuses on the uses of digital technologies with an emphasis on teaching you about creating online maps and using digital geobrowser technologies. This is an introductory course having no prerequisites. For some of you it follows on the Digital Planet course you took last semester, which is sound preparation, but not required. Technologies you will work with include Google Earth, NASA WorldWind, Quantum GIS, and GPS data processing. You will also have access to GPS equipment and video equipment for work on a project creating a personal GeoDiary. You will have access to computers during class, but you can also bring your own computer and install the software you need. Much of the work in Digital Mapping (DM) will involve manipulating data, preparing analysis, and making on-line interactive maps, called mash-ups. The technologies we will use offer a broad range; some may say unlimited number of possibilities useful in any field. The interactive learning environment of class meetings and the studio approach to work means you will almost be working hands-on making maps. The focus in the first weeks will be on learning the technology of Google Earth, to allow you to do creative and stimulating work. This course won't turn you into a programmer, but you will learn to work with basic scripts and some parts of the "black box". In class we will also consider other geobrowsers and ways to access and display geographic information online and you're heartily encouraged to bring up examples.  
Style: 10% Lecture, 20% Discussion, 60% Small Group Activities, 5% Student Presentation, 5% Guest Speakers. You will need to work outside of class to complete work begun in the classroom.  
Grading: 40% special projects, 40% written homework, 20% class participation. You will need to create a GeoDiary for class.

Geog 3985V Honors Senior Project Seminar  
4 credit(s); Meets CLE req of Writing Intensive  
Instructor: Hart, John Fraser  
Description: Student may contact the instructor or department for information.

Geog 3985W Senior Project Seminar  
4 credit(s); Meets CLE req of Writing Intensive  
Instructor: STAFF  
Description: The senior project seminar is a capstone course that encourages you to demonstrate what you have learned and what you learned to do as a Geography major. The instructor will guide you through a simulated research project that will require you (a) to extract relevant data from primary sources, such as the censuses of population and agriculture; (b) to convert these data into appropriate maps and graphs; and (c) to write a carefully polished paper that describes what you have discovered, and demonstrates your skills to a prospective employer. Class Time: one group meeting, subsequent weekly one-on-one half-hour meetings with the instructor. Work Load: six to ten hours extracting census data, twenty to forty hours constructing maps and graphs, fifty plus hours writing and polishing your final paper. Grade: 100% on the quality of the final paper.  
Style: Limited in-class meetings and one-on-one consultation with instructor  
Grading: 100% reports/papers.

Geog 3994H Honors: Directed Research  
1-8 credit(s), max credits 12, 12 completions allowed;  
Instructor: Larson, Jodi  
Description: Student may contact the instructor or department for information.

Geog 4002W Environmental Thought and Practice  
3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Lindeke, William A  
Description: Student may contact the instructor or department for information.

Geog 5361 Geography and Real Estate  
4 credit(s);  
Instructor: Squires, Roderick H  
Description: Through lectures and field trips the course will examine the nature and history of land ownership in the United States with special reference to Minnesota. The focus will be on the mechanistic, legalistic, and historic characteristics of land ownership not the uses to which land has been put or the philosophical, sociological, or economic aspects of land ownership. More attention will be paid to the published and unpublished primary materials that characterizes the nature of land ownership in the United States than to the secondary literature. The course is designed for relatively senior undergraduates, both majors and non-majors, and graduates, anyone interested in understanding the role that land ownership plays in our modern society and has played in our nation's history. In Fall 2011 the course content will change to emphasize field trips - on Friday afternoons 1.00-3.00 pm.
Geog 5426 Climatic Variations
3 credit(s);
Instructor: St. George, Scott
Description: How has our climate changed in the past? What caused those changes, and can understanding the Earth’s climate history help us better predict the future? Does the past really matter? In this seminar course, we will examine these questions through the lens of paleoclimatology, which uses physical and cultural evidence to make inferences about climates of the past. We will review the processes that govern our modern climate and explore what paleoclimate records tell us about how these systems respond to (and express) climate change. In the process, we will learn how insights drawn from the past can help inform discussions of contemporary issues linked to climate change, hazards and the management of natural resources. Case studies will be selected to focus on the Holocene (the last 10 ka) and, to a lesser degree, the climate of North America. By the end of the semester, students will be able to explain how paleoclimatology helps address grand challenges in Climatology and Earth Systems Science. They will be familiar with the core techniques used by scientists at the University of Minnesota to make inferences about past climates. They will also be able to provide examples that illustrate how adopting the ?Long View? can support risk assessment and wise stewardship of natural resources. More generally, they will have improved their ability to understand and synthesize scientific articles and will have developed skills to help them communicate about complex ideas in a clear and concise manner.
Style: 50% Lecture, 50% Field Trips.
Grading: 100% reports/papers.
Exam Format: no exam

Geog 5511 Principles of Cartography
3 credit(s);
Instructor: Lindberg, Mark B
Description: The course provides a general introduction to cartography (broadly defined). Our primary emphasis will be on map making, with lesser emphases on cartographic research and the history of cartography. Lectures will focus on modern cartographic design principles and how they were developed. Lab assignments help develop skills using digital tools for producing effective maps. Cartography is a very old discipline and over the centuries a particular map vocabulary was developed. By the end of the course you will have a good understanding of this vocabulary and how it impacts your ability to make maps that are both attractive and effective.
Style: 60% Lecture, 40% Laboratory.
Grading: 15% mid exam, 15% special projects, 15% additional semester exams, 10% class participation, 45% laboratory evaluation.

Geog 5563 Advanced Geographic Information Science
3 credit(s);
Instructor: Harvey, Francis
Description: In the Advanced Geographic Information Science (GEOG 5563) class you will advance your GIS abilities by connecting GIScience concepts to GIS skills. For graduate students this course helps develop a broad scientific grounding in GIS that provides a solid conceptual footing for other courses and work. For undergraduates this course provides an opportunity to learn fundamentals of GIScience concepts and related GIS skills. Accordingly, the assignments and project in this course involve different activities and deliverables. Graduate students engage more intensely with concepts and understand more of the foundations for academic and professional GIS careers through projects. Undergraduate students learn to evaluate and apply GIS operations and make connections with fundamental issues.
Style: 40% Lecture, 10% Discussion, 50% Laboratory.
Grading: 26% reports/papers, 64% written homework, 10% class participation.

Geog 8260 Seminar: Physical Geography
2 credit(s), max credits 3, 1 completion allowed;
Instructor: St. George, Scott
Description: Student may contact the instructor or department for information.

Geog 8291 Seminar in GIS, Technology, and Society
3 credit(s);
Instructor: Swobodzinski, Martin
Description: Student may contact the instructor or department for information.

Geog 8302 Research Development
S-N only, 3 credit(s);
Instructor: Samatar, Abdi Ismail
Geog 8405 Seminar: Graduate Student Professional Development
S-N only, 1 credit(s), max credits 2;
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;
Instructor: McMaster, Robert B
Description: Student may contact the instructor or department for information.

Geog 8970 Directed Readings
1-5 credit(s), max credits 10;
Instructor: Hart, John Fraser
Description: Student may contact the instructor or department for information.

Geog 8970 Directed Readings
1-5 credit(s), max credits 10;
Instructor: Samatar, Abdi Ismail
Description: Student may contact the instructor or department for information.

Geog 8970 Directed Readings
1-5 credit(s), max credits 10;
Instructor: Klink, Katherine
Description: Student may contact the instructor or department for information.

Geog 8970 Directed Readings
1-5 credit(s), max credits 10;
Instructor: Squires, Roderick H
Description: Student may contact the instructor or department for information.

Geog 8970 Directed Readings
1-5 credit(s), max credits 10;
Instructor: Braun, Bruce Philip
Description: Student may contact the instructor or department for information.
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;
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;
Instructor: Kipfmueler, Kurt
Description: Student may contact the instructor or department for information.

Geog 8970 Directed Readings
1-5 credit(s), max credits 10;
Instructor: Saldanha, Arun
Description: Student may contact the instructor or department for information.

Geog 8970 Directed Readings
1-5 credit(s), max credits 10;
Instructor: Kayzar, Brenda
Description: Student may contact the instructor or department for information.

Geog 8970 Directed Readings
1-5 credit(s), max credits 10;
Instructor: Swobodzinski, Martin
Description: Student may contact the instructor or department for information.

Geog 8970 Directed Readings
1-5 credit(s), max credits 10;
Instructor: Neely, Abigail Helen
Description: Student may contact the instructor or department for information.

Geog 8980 Topics in Geography: Labor Geography & Political Economy
1-3 credit(s), max credits 15, 10 completions allowed;
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;
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;
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;
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;
Instructor: Samatar, Abdi Ismail
Description: Student may contact the instructor or department for information.

Geog 8990 Research Problems in Geography
Geog 8990 Research Problems in Geography
1-5 credit(s), max credits 10;
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;
Instructor: Braun,Bruce Philip
Description: Student may contact the instructor or department for information.

Geog 8990 Research Problems in Geography
1-5 credit(s), max credits 10;
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;
Instructor: Harvey,Francis
Description: Student may contact the instructor or department for information.

Geog 8990 Research Problems in Geography
1-5 credit(s), max credits 10;
Instructor: Henderson,George Lawlor
Description: Student may contact the instructor or department for information.

Geog 8990 Research Problems in Geography
1-5 credit(s), max credits 10;
Instructor: Manson,Steven M.
Description: Student may contact the instructor or department for information.

Geog 8990 Research Problems in Geography
1-5 credit(s), max credits 10;
Instructor: Kipfmueller,Kurt
Description: Student may contact the instructor or department for information.

Geog 8990 Research Problems in Geography
1-5 credit(s), max credits 10;
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;
Instructor: Kayzar,Brenda
Description: Student may contact the instructor or department for information.

Geog 8990 Research Problems in Geography
1-5 credit(s), max credits 10;
Instructor: Swobodzinski,Martin
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);
Instructor: Guzina,Bojan B
GeoE 4102W Capstone Design
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Rendahl PhD, Merry
Description: Student may contact the instructor or department for information.

GeoE 4102W Capstone Design
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Marasteanu, Mihai
Description: Student may contact the instructor or department for information.

GeoE 4301 Soil Mechanics II
A-F only, 3 credit(s); [GE 3301 or CE 3301], upper div CSE] 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); [GE 4351, CE 4351, [CSE upper div or grad student]] 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: Mogilevskaya, Sofia
Description: Student may contact the instructor or department for information.

Geriatrics 15-209 MoosT

Geri 7100 Oral Health Services for Older Adults Seminar
2 credit(s);
Instructor: Shuman, Stephen K
Description: Student may contact the instructor or department for information.

Geri 7200 Advanced Clinical Geriatric Dentistry
A-F only, 1-10 credit(s), max credits 10, 1 completion allowed;
Instructor: Shuman, Stephen K
Description: Student may contact the instructor or department for information.

Geri 7210 Geriatric Hospital Dentistry
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Ofstehage, John Charles
Description: Student may contact the instructor or department for information.

German 320 Folwell Hall

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.
Ger 1001 Beginning German
5 credit(s);
Instructor: Steinhagen, Virginia I
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for policies, including fee and financial aid restrictions. 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.
Style: Online
Grading: See attached syllabus
Exam Format: Online

Ger 1002 Beginning German
5 credit(s);
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 Elvis in Koln 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, 15% reports/papers, 4% special projects, 30% quizzes, 28% class participation. 13% Reading/group work assignments and computer/audio lab.
Exam Format: Written.

Ger 1003 Intermediate German
5 credit(s);
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 and career decisions. The program has a communicative and functional orientation. German 1003 is designed to review basic German language structures and to help students extend their listening and speaking skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research of cultural topics. Process-writing essays, presentations on cultural topics, and short interviews round out the course.
PARTIALLY ONLINE SECTIONS: The instruction and content are delivered by a combination of in class face-to-face meetings and a wide range of independent and collaborative online activities with short (frequent) due dates. Most weeks will have 3 face-to-face sessions and 2 online work-days, in addition to regular homework. This course requires a considerable amount of independent work to be completed online outside of the classroom contact hours. To help assess whether online learning is right for you, see these guides at the Digital Campus website: http://digitalcampus.umn.edu/resources/onlinelearningassessment.html.
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);
Instructor: STAFF
Description: 1004 builds on the skills taught in 1003. Students work with the course-packet Sprunge 1004, read the book Sonnenallee, listen to podcasts, and watch a feature film. Topics include Berlin, film and art, family and youth, and issues of multiculturalism. The program has a communicative and functional orientation. German 1004 reviews German language
structures and helps students expand their communicative 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 and role-plays. Process-writing essays and interviews round out the course. 

Books:
- Sprunge 1004 Course Packet

PARTIALLY ONLINE SECTIONS: The instruction and content are delivered by a combination of in class face-to-face meetings and a wide range of independent and collaborative online activities with short (frequent) due dates. Most weeks will have 3 face-to-face sessions and 2 online work-days, in addition to regular homework. This course requires a considerable amount of independent work to be completed online outside of the classroom contact hours. To help assess whether online learning is right for you, see these guides at the Digital Campus website: http://digitalcampus.umn.edu/resources/onlinelearningassessment.html.

Style: varies with instructor.
Grading: 10% final exam, 10% reports/papers, 15% quizzes, 15% additional semester exams, 29% class participation, 21% other evaluation. Other evaluation includes interviews, listening and reading exercises.
Exam Format: The exams and quizzes test vocabulary, grammar, reading or listening, and writing.

Ger 1022 Beginning German Review
5 credit(s);
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, Oktoberfest. 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, 15% reports/papers, 32% quizzes, 28% class participation. 11% Reading/group assignments, 4% Computer/audio lab.
Exam Format: Written

Ger 3011W Conversation and Composition
4 credit(s);Meets CLE req of Writing Intensive
Instructor: STAFF
Description: This course is designed to refine students' oral and written expression and aid in the development of critical analysis skills. Contemporary readings introduce important communicative modes of language (description, narrative, debate, report, text analysis), while a grammar review supports work on finer grammar points. Multi-media materials (video clips, feature films, computer resources) will complement the other instructional materials. Graded work includes active class participation, essay writing and revision, individual and group oral presentations and projects, and informal writing assignments of varying lengths.
Style: 10% Lecture, 10% Film/Video, 30% Discussion, 35% Small Group Activities, 15% Student Presentation.
Grading: 30% reports/papers, 25% quizzes, 10% journal, 25% in-class presentation, 10% class participation.

Ger 3012W Conversation and Composition
3 credit(s);Meets CLE req of Writing Intensive
Instructor: Firchow,Evelyn S
Description: This course is the continuation of German 3011 and is the most advanced German language class. It is designed to refine students' oral and written expression. A thorough grammar review supports work on grammar points. Graded work includes active class participation, essay writing and revisions, grammar review and exercises, and informal writing assignments of varying lengths. Class attendance is required.
Grading: 60% written homework, 40% class participation. There will be no midterm or final examination.

Ger 3016 Techniques of Translation
3 credit(s);
Instructor: Firchow,Evelyn S
Description: Translation is an essential foreign language learning practice and key to the achievement of higher levels of linguistic proficiency and translingual competency. This course is designed as an introduction to the praxis of translation from German to English. Students will have the opportunity to increase their command of German through assignments designed to compare and contrast German and English grammar. You will engage in detailed textual analysis, expand your working vocabulary, and practice ways of analyzing complex syntax. Weekly assignments will encourage mastery of the structure of the German language, appreciation of semantic meanings, and development of advanced textual literacy. The texts that form the basis for our translation exercises will include a wide range of literary and non-fiction genre types written
in standard German, including current articles from on-line news media (Die Zeit). As a final translation project, you will be responsible for preparing a well-crafted translation that shows your ability to handle the translation of stylistically complex German into English. This assignment requires a minimum of two drafts (preliminary and final) and will be approximately 10-15 pages (5000 words) in length. Objectives: In this course students will: * identify, define, and solve problems of translation from German to English and English to German. * master the body of linguistic and cultural knowledge and the mode of grammatical inquiry foundational to the successful translation of texts between these languages. * exercise effective communication skills in German and English in ways that lead to the development of critical literacy skills applicable in many contexts (academic and professional) and translingual competence.

Ger 3104W Reading and Analysis of German Literature
3 credit(s); Meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Olstad,Ashley M
Description: With the primary goal of introducing students to practices and strategies for analyzing literature, this course will explore the concept of national belonging through the literary works and films of individuals with non-German origins (nicht-deutscher Herkunft). We will not only explore the motif of migration but will also focus on questions central to understanding German national identity. Students will examine the notion of belonging, citizenship, race and the role of language and body as markers of identity and belonging in contemporary Germany. Students will be graded on their attendance and participation in class discussions, short quizzes, one oral presentation and four short essays. The course is conducted in German.

Ger 3421 18th-Century German Literature
3 credit(s);
Instructor: Teraoka,Arlene A
Description: Conducted in German. Some of the most famous and influential German writing of all time, by authors such as Lessing, Schiller, Goethe, and Kleist and philosophers such as Herder and Kant. The course introduces you to the ideas and issues of the German Enlightenment, the Sturm und Drang movement, and Weimar Classicism. Ger 3421 assumes successful completion of Ger 3011 (an official prerequisite) and is designed for students at the advanced third-year level. Reading assignments will be relatively short and intellectually and linguistically challenging. Students will be asked to write three analytical papers and to prepare a 10-minute oral presentation in German.

Ger 3604W Introduction to German Cinema
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Mc Cormick,Rick
Description: This is an introductory course in German cinema, one of the most influential national cinemas. The films to be studied include classic films like Robert Wiene's The Cabinet of Dr. Caligari (1920) and Fritz Lang's Metropolis (1927) from the "golden age" of German cinema during the 1920s? the infamous, anti-Semitic Nazi melodrama, Jew Suess (Veit Harlan, 1940)? Wolfgang Staudte's The Murderers Are Among Us (1946) the very first postwar German film, made in the rubble of Berlin? I Was 19 (1967), an antifascist film made by East Germany's Konrad Wolf? examples of the "New German Cinema," films exploring the political and psychological trauma of 20th century German history by West German directors like Rainer Werner Fassbinder and Margarethe von Trotta in the 1970s & 1980s? and some popular feature films made in the two decades since reunification in 1990, such as the international hits Run, Lola, Run (1998) and The Edge of Heaven (Auf der anderen Seite, 2007), Turkish-German director Fatih Akin's transnational film about crossing borders. German 3604 meets the Arts & Humanities core requirement. In this course you will engage in detailed analysis of and reflection on exemplary works of the German cinema. Through engaging in class discussion, small group work, class presentations, web responses on Moodle, and in writing two 5-10 pp. essays, you will engage in critical evaluation of the films we will study? this is the work that film scholars do, and you will be introduced to it. As part of the work of critical evaluation, you will also examine how these films relate to the cultural and historical context in which they arose. Thus the course also meets the Liberal Education theme of Global Perspectives. The course clearly focuses on the world beyond the U.S. through its focus on Germany. The course is designated as Writing Intensive as well.
Style: 20% Lecture, 40% Film/Video, 20% Discussion, 20% Small Group Activities.
Grading: 60% reports/papers, 20% written homework, 10% in-class presentation, 10% class participation. 30% for each of two papers Written homework = weekly web responses on Moodle. Participation grade includes attendance.

Ger 3610 German Literature in Translation: Pleasure/Distraction: Urban Entertainment Culture
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Hoffmann,Hilde
Description: Pleasure & Distraction. Urban Entertainment Culture around 1900 (no knowledge of german required) Near the turn of the century (1880-1930) European metropolises such as Berlin, Vienna and Paris underwent drastic change. With the increasing mobility made possible with the advent of the automobile and steam trains; the electrification of cities with luminous architectures and brightly lit shop windows; and with emerging possibilities of urban entertainment in the form of panoramas, amusement parks and Variets new forms of public perception came into being. Within this context cinema marks a climax. We will approach cultural and media history of urban experience through works from Walter
Benjamin, Siegfried Krakauer, Franz Kafka and Georg Simmel e.g. In the second part of the seminar we will approach the entertainment culture of our own metropolis. In the center of our excursions we will be focusing on the historic and contemporary fairground and cinema landscapes of the Twin Cities.

**Style:** 30% Lecture, 30% Discussion, 20% Student Presentation, 20% Field Trips.

**Grading:** 30% special projects, 30% in-class presentation. 40% documentation of the groupwork

**Ger 3993 Directed Studies**

1-4 credit(s), max credits 12, 12 completions allowed;
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);
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);
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);
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 and career decisions. The program has a communicative and functional orientation. German 1003 is designed to review basic German language structures and to help students extend their listening and speaking skills. Regular recycling of grammar and vocabulary encourages students to become more fluent in their use of language. Students participate regularly in conversational activities, small group work, role-plays, and internet research of cultural topics. Process-writing essays, presentations on cultural topics, and short interviews round out the course. Partially Online Sections: The instruction and content are delivered by a combination of in class face-to-face meetings and a wide range of independent and collaborative online activities with short (frequent) due dates. Most weeks will have 3 face-to-face sessions and 2 online work-days, in addition to regular homework. This course requires a considerable amount of independent work to be completed online outside of the classroom contact hours. To help assess whether online learning is right for you, see these guides at the Digital Campus website: http://digitalcampus.umn.edu/resources/onlinelearningassessment.html.
Ger 4004 Intermediate German
2 credit(s);
Instructor: STAFF
Description: 4004 builds on the skills taught in 1003. Students work with the course-packet Sprunge 1004, read the book Sonnenallee, listen to podcasts, and watch a feature film. Topics include Berlin, film and art, family and youth, and issues of multiculturalism. The program has a communicative and functional orientation. German 1004 reviews German language structures and helps students expand their communicative 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 and role-plays. Process-writing essays and interviews round out the course. Books: Sprunge 1004 Course Packet Brussig, Thomas. Am kurzeren Ende der Sonnenallee. Easy Reader version.

Ger 5610 German Literature in Translation: Understanding Kant
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Rothe, Matthias
Description: The work of Immanuel Kant (1724-1804) is widely considered as marking a new era in Western thought. Kant himself considered his critical philosophy a "Copernican revolution": it reversed entirely and counter-intuitively the relation of subject and world. According to Kant, we recognize the world, and we experience objects as beautiful or certain actions as moral not because of their objective qualities, but because of our subjective capacities. In other words, the world conforms to us, not the other way round. Yet should this prove to be true, the consequences would be severe. More than a few of Kant's contemporaries were plunged into deep crisis through an encounter with his critical philosophy. This course will provide an introduction to Kant's philosophy. Through lectures, close readings and group work we will reconstruct themes, motifs and arguments of Kant's thinking, drawing on the three major critical works as well as on earlier, less known philosophical essays. You will eventually be able not only to comprehend (yet hopefully not re-live) the sense of crisis that came along with Kant's philosophy, but also understand its lasting impact.
Style: 60% Lecture, 20% Discussion, 20% Small Group Activities.
Grading: 50% reports/papers, 50% class participation.

Ger 5630 Topics in German Cinema: Recent Documentaries and Politics
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Hoffmann, Hilde
Description: The 'political' documentary film has experienced a recent boom in cinemas, television and in art. The programs of international film festivals, box office returns and the large public debates that documentary films have opened up show the relevance of such films in recent years. The documentary form has always been connected to the hope not only to understand the reality around us and to make it understandable, but also to change this reality. This political and interventional claim that has accompanied documentary film since its beginning appears to be more relevant than ever before. But how do we talk about the political without limiting ourselves to official politics du jour? What makes a film political? What sort of concept of political does current documentary film have? And what are the politics of contemporary documentary filmmakers? In this seminar we will discuss and analyze filmic and political strategies, positions, and problems of contemporary documentary films from Germany, Austria and Switzerland. The seminar will start with a short introduction to the history of documentary films and their differing formulations. We will proceed by introducing various concepts of political philosophy (Laclau/Mouffe and Jaques Ranciere) in order to better understand what the 'political' actually means. A weekly film screenings and discussions will follow.
Style: 20% Lecture, 30% Film/Video, 30% Discussion, 20% Student Presentation.
Grading: 40% reports/papers, 40% in-class presentation. 20% synopsis

Ger 5993 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed;
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 8300 Topics in Literature and Cultural Theory: Marginalia
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Morris, Leslie C
Description: This seminar will explore marginalia as literary form. We will first consider marginalia in its most literal meaning of writing found in the margins of texts, and move to a broader consideration of the materiality of literary texts and the poetics of writing "outside the margins." Examining classic cases of marginalia (Coleridge; Poe; Kafka; Benjamin), we will explore text that is both on and outside the margins; text that slips off the page; paratext; writing found outside the margins, within the parentheses, on the body, on the wall. Topics to be addressed include: the archive and marginalia; discarded texts and their "afterlives?; marginalia and the found text, the fragment, and translation; imprint of Talmudic text on contemporary Jewish poetic practices; hypertext as marginalia; the ways in which emendation, annotation, citation,
footnotes, the index and gloss expand the frame of the text. The seminar will also consider the place of print text in Conceptual and Pop art and the relationships between word, text, and image. Readings by, among others, Benjamin, Blonstein, Borges, Calvino, Celan, Cixous, Coleridge, Derrida, Oswald Egger, Freud, Kafka, Karasick, Pessoa, Poe, Sebald. Sondheim, Benjamin Stein,. Class will be conducted in English, with all readings available in English.

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

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**German, Scandinavian, and Dutch**

**320 Folwell Hall**

**GSD 3512W Imagined Communities: German and European, Culture and Controversies, 1700 to Present**

3 credit(s); Meets CLE req of Writing Intensive

**Instructor:** Rothe, Matthias

**Description:** This course provides an overview of the cultural, historical and social developments in the German-speaking and in some Scandinavian countries from 1700 to the present. It will cover events and issues that are key to understanding the social, political, and cultural profile of present-day Europe. Topics to be discussed include: the Enlightenment in philosophy and literature; the rise of the bourgeoisie and its effect on literary culture; the formation of a national identity; the transformations linked to phenomena such as industrialization, urbanization, and the rise of mass politics in the latter decades of the 19th century; the attraction and fear of modernity expressed in the aestheticism and cultural despair at the turn of the century, as well as in the radical cultural politics of the avant-garde; the shock of World War I, the rise of Fascism and the complex cultural and political landscape of the cold war period and of what followed it.

**Style:** 30% Lecture, 10% Film/Video, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 15% Guest Speakers.

**Grading:** 20% mid exam, 40% reports/papers, 15% in-class presentation, 25% class participation.

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**GSD 8002 Interdisciplinary Approaches to Textual Analysis**

3 credit(s);

**Instructor:** Morris, Leslie C

**Description:** This seminar will explore marginalia as literary form. We will first consider marginalia in its most literal meaning of writing found in the margins of texts, and move to a broader consideration of the materiality of literary texts and the poetics of writing ?outside the margins.? Examining classic cases of marginalia (Coleridge; Poe; Kafka; Benjamin), we will explore text that is both on and outside the margins; text that slips off the page; paratext; writing found outside the margins, within the parentheses, on the body, on the wall. Topics to be addressed include: the archive and marginalia; discarded texts and their ?afterlives?; marginalia and the found text, the fragment, and translation; imprint of Talmudic text on contemporary Jewish poetic practices; hypertext as marginalia; the ways in which emendation, annotation, citation, footnotes, the index and gloss expand the frame of the text. The seminar will also consider the place of print text in Conceptual and Pop art and the relationships between word, text, and image. Readings by, among others, Benjamin, Blonstein, Borges, Calvino, Celan, Cixous, Coleridge, Derrida, Oswald Egger, Freud, Kafka, Karasick, Pessoa, Poe, Sebald. Sondheim, Benjamin Stein,. Class will be conducted in English, with all readings available in English.

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

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**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;

**Instructor:** Shuman, Stephen K

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

**Gero 8022 Fostering a Career in Aging Research**

S-N only, 1 credit(s); Grad students/post-doctoral fellows involved in National Institutes on Aging training grant Functional Proteomics of Aging or grad students or post-doctoral fellows with instr consent Credit will not be granted if credit has been received for: RSC 8022;

**Instructor:** Ferrington, Deborah Ann

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

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**Global Studies**  
**214 Social Science**
GloS 1112 Globalization and Social Justice
A-F only, 3 credit(s);
Instructor: Craddock,Susan L
Description: What do we mean by social justice? Human rights? This course explores how these complex concepts are understood, in what ways they get enacted or abused, what institutions are tasked with overseeing global standards of human rights, and under what conditions rights and justices break down or change meaning. As an introductory course, students will have an opportunity to hear from a number of faculty from within and outside of Global Studies as to how they understand and use, or critique the utilization of, these concepts in their work.

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 globalization, 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 lives 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); 6 cr in social sciences including 1015W or GEOG 1301 or HIST 1012 or HIST 1018 or POL 1025 or instr consent Credit will not be granted if credit has been received for: GLOS 3145H;
Instructor: Skaria,Ajay
Description: Student may contact the instructor or department for information.

GloS 3145H Theoretical Approaches to Global Studies
A-F only, 4 credit(s); 6 cr in social sciences including at least one of the following [1015W or GEOG 1301 or HIST 1012 or HIST 1018 or POL 1025], Honors student] or instr consent Credit will not be granted if credit has been received for: GLOS 3145;
Instructor: Skaria,Ajay
Description: Student may contact the instructor or department for information.

3 credit(s); Credit will not be granted if credit has been received for: HIST 3478;
Instructor: Isett,Christopher Mills
Description: With a third of global Gross Domestic Production, and the world's fastest growing economies, East Asia is arguably the most vital economic region today. In the 1950s, internal transformations set the economies of this region on a new path. Turning on state guidance, they abandoned import substitution and sought to move up the manufacturing chain through export-led development. The results were historically unprecedented rates of growth. This course examines how this was achieved and what it means for us today. We look to social and political actions to understand these economic outcomes. We look at Japan from the 1930s on; South Korea and Taiwan from their time as Japanese colonies to the present; and we look at China since 1978. Topics covered will include the legacy of colonial past, problems of late development, post-war development strategies, statism, the rise of finance, the emergence of regional manufacturing networks, regional labor markets, import substitution, export-led growth, political economy of the NICS. We will also examine framing global developments and shocks from Bretton-Woods to the 1973 oil shock, to Plaza Accord (1985) and Reverse Plaza (1995), to the 1997 Asia financial crisis and the 2008 financial meltdown.

GloS 3322W Social Movements, Protests, and Change
3 credit(s); Credit will not be granted if credit has been received for: SOC 3322W; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
Instructor: Broadbent, Jeffrey Praed
Description: Focusing on the origins, dynamics, and consequences of social movements, this course explores debates about why and how movements arise and take shape, the dilemmas and challenges for making a movement organization and keeping it going, the relationship between social movements and established political parties and institutions, the transition from movement to non-governmental organization (NGO) or other formalized association, and the role of social movements and protest in bringing about change. The course is organized around general theoretical issues concerning why people join movements, why they leave or remain in movements, how movements are organized, the strategies and tactics they use, and their long-term and short-run impact. To illustrate these theoretical concepts, we will read a number of articles about social movements in one region of the world: East Asia (Japan, China, South Korea, Taiwan, Hong Kong and Singapore). This region is of great economic importance but does not have the presence or at least historical depth of the liberal democratic state compared to the US and Western Europe, the usual sites for cases of social movement study. Studying social movements in this relatively un-analyzed context will help clarify many existing theories and suggest directions for new theories and concept.
Style: 45% Lecture, 30% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.
Grading: 10% mid exam, 10% final exam, 60% reports/papers, 5% quizzes, 5% in-class presentation, 10% class participation. This is a writing intensive course. The student writes the paper in three sections, gets peer and instructor feedback on each, and then combines them into the full final paper.
Exam Format: Multiple choice and short essay

GloS 3402 Human Rights Internship
A-F only, 3 credit(s);
Instructor: Curtin, Mary Therese
Description: This course is designed to offer students a practical, hands-on experience in human rights advocacy including an internship in one of the many organizations in the Twin Cities area that are engaged in promoting and protecting international human rights. A student is required to work 8 hours per week (total of 100 hours for the semester) in a nongovernmental organization. To complete this class, students are required to: attend and participate in class; complete the required readings; complete the required 100 hours at the site placement; make a 5 minute in-class presentation about the internship placement; turn in weekly memos to the instructor and the site supervisor; participate in the group NGO project, and turn in a 3-page reflection paper at the end of the internship.
Grading: 50% Site Supervisors Evaluation; 20% Group NGO Projects; 15% Quality of Weekly Memos; 5% Class Participation and In-Class Presentation on Internship; 10% 3-Page Reflection Paper.

GloS 3550V Honors Course: Supervised Research Paper
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

GloS 3550V Honors Course: Supervised Research Paper
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

GloS 3605 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;
Instructor: Wolfe, Thomas C
Description: This course is an examination of what we take completely for granted today: a world of print, books, and readers. The course will examine the rise of alphabetic writing, the place of writing in medieval societies; the rise of printed material in the 15th century, and the spread and domination of print in the world of the mass press of the 18th and 19th centuries. We will conclude the course with a consideration of what it means to read in the conditions of computers, hypertext, and the internet in the present. Please contact the instructors for further information. Taught by Tom Wolfe and JB Shank.
Style: 25% Lecture, 75% Discussion.
Grading: 50% reports/papers, 25% in-class presentation, 25% class participation.

GloS 3701W Population in an Interacting World
4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Nelson, Sara Holiday
Description: The aim of this course is to provide students with a multi-disciplinary understanding of and appreciation for human population phenomena and problems in different parts of the world and at different geographic scales—from the local to the global. This involves an investigation of the different components of population change—fertility, mortality and
migration of human populations - and an engagement with different, often competing, explanations of these population phenomena that have been offered by social scientists. One of the major learning objectives is to create an awareness that in order to understand and explain population phenomena and problems in different places and countries of the world we have to become knowledgeable about the economic, political, social, cultural and environmental context within which these take place and the importance of the nature of interactions between different parts of the world. Throughout the course, particular emphasis is placed on understanding and critically reflecting on a) contemporary population problems at the global, national and local scale, including the world population explosion, both dramatic decline and persistence of high levels of fertility in parts of the developing world, record-low fertility and population aging in highly industrialized countries, the HIV-AIDS epidemic and major health problems, environmental disasters and population health, increasing levels of international migration, refugee crises, massive rural to urban migrations in the less developed world; b) policies adopted to address these problems such as family planning policies to reduce fertility levels and immigration policies; and c) the gender dimension of contemporary population problems and policies. In addition, students will learn about basic sources, measures, and methods of representation used in the study of human population phenomena, and gain basic skills and experience in data analysis, interpretation, and writing research reports.

Style: 75% Lecture, 15% Film/Video, 10% Discussion.
Grading: 20% mid exam, 30% final exam, 50% reports/papers.
Exam Format: Multiple choice, short answer, and essay.

GloS 3900 Topics in Global Studies: Chinese Society: Culture, Networks & Inequality
3 credit(s), max credits 15, 3 completions allowed;
Instructor: Bian, Yanjie
Description: The aim of this course is to introduce students to sociological perspectives and analyses of cultures, social networks, and socioeconomic inequalities in China today. The instructor will give lectures on relevant topics with the assistance of PPT presentation, and in-class discussions will be organized to exchange opinions about issues of common interests among the enrolled students. A cultural tour to China (Beijing, Shanghai, and Xi'an) will be arranged during the Spring Break. Through this course, students will gain a basic understanding of how Chinese society operates today. The prerequisite is Soc1001 "Introduction to Sociology," or otherwise the Instructor's permission is required to enroll in the class.
Style: 70% Lecture, 15% Discussion, 15% Field Trips.
Grading: 70% reports/papers, 20% quizzes, 10% class participation.

GloS 3900 Topics in Global Studies: The History of Modern Iran
3 credit(s), max credits 15, 3 completions allowed;
Instructor: Bashiri, Iraj
Description: "Modern Iran" covers Iranian history from the fall of the Sassanids (7th c. CE) to the present. Part 1 discusses the coexistence of Islam and Iranian culture culminating in the adoption of Shi'ism as the official religion of Iran (16th c. CE). Part 2 examines the role of the Safavids, Qajars, and Pahlavis in the modernization and westernization of Iran. Part 3 examines the impact of the 1979 Islamic Revolution on Iranian society. Student Learning Outcomes: 1. Acquaint students with the history and culture of modern Iran. 2. Examine the impact of Zoroastrianism on Islam. 3. Examine the impact of modernization/westernization on Iranian culture. 4. Discuss Iranians' reaction to westernization: the 1979 Islamic Revolution.
Style: 50% Lecture, 20% Film/Video, 10% Discussion, 20% Student Presentation.
Grading: 15% mid exam, 40% reports/papers, 22% quizzes, 3% attendance, 15% in-class presentation, 5% class participation. Attendance is tracked by signing a sheet.
Exam Format: Essay format

GloS 3900 Topics in Global Studies: The Cultures of the Silk Road
3 credit(s), max credits 15, 3 completions allowed;
Instructor: Bashiri, Iraj
Description: The culture of the Silk Road flourished after the invasion of Alexander. The Road served as a hub of activity between the time of the Sassanids and the Mongols. Its activity came to a halt after the discovery of the sea routes. After the fall of the Soviet Union, not only the markets but also the intellectual legacy that was associated with them, have come to life in Central Asia. The course covers both the past and the present aspects of the Silk Road. Student Learning Outcomes: Learning about the cultures of medieval and present-day Central Asia, Afghanistan, and Iran; Ability to interpret diverse ideological trends and accept them for what they are; Distinguish different economical, political, and cultural trends; Examine the roots of conflict leading to amity and cooperation versus to animosity and war; Appreciate the contributions of Central Asian, Afghan, and Iranian peoples to world civilization.
Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.
Grading: 12% mid exam, 45% reports/papers, 24% quizzes, 3% attendance, 10% in-class presentation, 6% class participation.
Exam Format: Essay: Students are given a study guide before each exam with the major topics discussed from which exam questions are taken.
GloS 3900 Topics in Global Studies: Disposable People? Surplus Value/Surplus Humanity  
3 credit(s), max credits 15, 3 completions allowed;  
Instructor: Gidwani,Vinay Krishin  
Description: How do economic and social arrangements generate marginalized populations that are considered "surplus"? What is distinctive about "surplus populations" in the present global age? Have certain segments of humanity—remaineder lives, as it were—become "disposable" within the existing order of things? In what ways does capitalism's drive for productivity and profit contribute to the rise of superfluous populations? How do states "manage" surplus populations? What kinds of political and ethical questions does the existence of "surplus humanity" force us to confront? Our course will address these urgent issues and others. Classes will be a combination of lectures, discussions, debates, and audio-visual clips. Some books will have to be purchased. Other readings and assignments will be posted on Moodle. There will be no exams; instead participants will be expected to: a) attend class regularly and participate in class discussions (10%), b) post weekly annotations on assigned readings (25%); c) work cooperatively in groups of two to three on a high quality end-of-semester research presentation on a contemporary event, problem or phenomenon with the instructor's prior approval (25%); d) write a 10-page research essay on a topic relevant to the course with the instructor's prior approval (40%).

GloS 3900 Topics in Global Studies: The United States and the Global Economy  
3 credit(s), max credits 15, 3 completions allowed;  
Instructor: Lucius,Andrew Michael  
Description: This course provides an overview of the impact of the global economy on domestic politics, with a particular focus on the US. The global economy impacts all forms of politics, not just those we traditionally think of as foreign policy. For example, US labor markets are highly dependent on cheap immigrant labor, the housing market is (or was?) financed by cheap foreign capital, and Walmart is dependent on cheap foreign resources to achieve those everyday low prices. Both the 2008 and 2012 general elections focused heavily on economic issues (the effects of stimulus on the economy, the appropriateness of auto and bank bailouts, the impact of government healthcare regulations on unemployment, etc.), thus complicated economic issues had major electoral consequences. This course will help you understand how the ever more complex global market impacts politics from the international to the local level. You will, I hope, become educated consumers of economic news, and be able to link it clearly to your own political preferences and those of other citizens in the US and abroad.

GloS 3900 Topics in Global Studies: Nationalisms  
3 credit(s), max credits 15, 3 completions allowed;  
Instructor: Jutila,Matti Antero  
Description: Nationalism has been one of the most significant ideologies influencing global politics during the past two centuries. The different colors on the map designate political units that bear the name of a nation. Today nationalism is increasingly challenged by global and local pressures and in Europe by supranational integration. However, nation remains an important political category, and without an understanding of nationalism, it would be impossible to analyze many contemporary political processes. The course offers an in-depth presentation of the main research traditions and approaches in the study of nationalism and shows how they can be applied in concrete case studies. We will cover a wide area both in terms of research traditions and geographical coverage. The aim of the course is to help students understand and analyze how nationalism affects international politics as well as everyday life of people in different corners of the globe. The course is divided into two parts. Lectures in the first part in introduce the main theoretical traditions in the study of nationalism. The first part will end with mid-term exam. The second part consists of student presentations on nationalisms in different parts of the world and during different historical eras. Students are expected to write a research paper on the topic of their choosing and present their case to other students.  
Grading: 30% mid exam, 10% in-class presentation, 10% class participation. 40% Research Paper; 10% Lead discussion.

GloS 3910 Topics in East Asian Studies: Samurai, Geisha, and How They Became Japanese  
3 credit(s), max credits 6;  
Instructor: Mizuno,Hiromi  
Description: This course traces how Samurai and Geisha came to be considered the quintessential Japanese tradition through Western Orientalism, Japanese nationalism, international politics, and cultural globalization. You will be learning not only about Samurai and Geisha, but also about Japan's modernization and its political, intellectual, and cultural transformation. We'll examine films (both Japanese and American), autobiographies of samurai and geisha, novels, and scholarly works.  
Style: 30% Lecture, 30% Film/Video, 30% Discussion, 10% Small Group Activities.  
Grading: 50% reports/papers, 10% quizzes, 20% written homework, 20% journal. Attendance and class participation is mandatory.

GloS 3934 Women and Gender in Latin American History  
3 credit(s); Credit will not be granted if credit has been received for: HIST 3424; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives  
Instructor: Chambers,Sarah C  
Description: The history of women in Latin America offers many surprises. In 1620, when swashbuckling soldier Francisco
de Loyola was arrested in Peru, s/he came out as Catalina de Erauso, a runaway from a Spanish convent. Almost 300 years later, Angel/a Jimenez similarly donned men's clothing to fight in the Mexican revolution. Other Latin American women embraced their identity as mothers, but then took to the streets to protest military dictatorships. This course examines changing gender norms in Latin America, from Aztec times to the present, as compared to the lives of real women and men of diverse classes and ethnic groups: nuns and witches, slaves and factory workers, feminists and socialists. In addition to historical articles, we will read literature, memoirs, and first-person testimonials. This course fulfills the historical perspectives and global perspectives requirements.

Style: 60% Lecture, 10% Film/Video, 30% Discussion.
Grading: 15% mid exam, 20% final exam, 40% reports/papers, 5% quizzes, 20% class participation.

GloS 3942 History of Modern Israel/Palestine: Society, Culture, and Politics
3 credit(s); Credit will not be granted if credit has been received for: HIST 3512; Meets CLE req of Global Perspectives
Instructor: Schroeter,Daniel J
Description: Beginning with a survey of Palestine in the nineteenth century, this course examines the origins of Zionism and Arab Nationalism, Arab-Jewish conflict in Palestine, the development of Jewish and Arab national cultures in the British Mandate, the formation of the Israeli nation after 1948, the Arab-Israeli wars, and the development of the Palestinian movement. Particular attention will be paid to the diversity of Israeli and Palestinian society and culture, and the relations between the diverse communities in Israel/Palestine in the 20th century. As one of the most controversial subjects of the modern world, students will confront many contested accounts and interpretations of history that often serve the political aims of one of the many sides in the Israeli-Palestinian conflict. Yet in understanding these opposing viewpoints and competing versions of history, students will be better equipped to analyze why the conflict in Israel/Palestine has remained so difficult to resolve.
Style: 70% Lecture, 15% Discussion, 15% Small Group Activities.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% class participation.

GloS 3960 Topics in South Asian Studies: Exploring India: Languages, Literature, and Film
3 credit(s);
Instructor: Hong,Sungok
Description: Student may contact the instructor or department for information.

GloS 3969 20th Century India
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: HIST 3489;
Instructor: Skaria,Ajay
Description: At the beginning of the 20th century, India was a British colony; now, in the second decade of the 21st century, it is widely regarded a rising economic and political power. This has been a tumultuous period, marked amongst other things by: the largest and most powerful nonviolent movement anywhere in the world, which under the leadership of Gandhi led to India's independence; the bloody partition of the subcontinent into India and Pakistan; the consolidation of a parliamentary system that has seen India emerge as the world's largest democracy; transformations of caste that, while they have not dislodged the upper castes, have seen the increasing assertion of power by the lower castes, especially the former untouchables; the emergence of new forms of Hindu and Muslim identity, and relatedly the increasing power of the BJP, the Hindu nationalist party; the rise of India as an economic power is likely to see it soon become the seventh richest nation in terms of private wealth, even as close to a quarter of the population continues to suffer from severe poverty. This course will track the processes that have led to the making of contemporary India by paying special attention to 20th century Indian civic life and nationalism. Specifically, it will explore how Indian national and political identities have been constantly roiled by the mobilizations of both marginal groups (lower castes, women, peasants, and Muslims) seeking equality, and how the Indian state, Indian nationalism and even everyday life has been shaped by these mobilizations. Throughout, the course will stress the broader implications of these social processes—the way that these processes illuminate the workings of civic life and national identities not just in India, but elsewhere too. Through the course, students will hopefully become familiar with various debates and issues in contemporary India. We will start every class with a 10-15 minute discussion session devoted to student reports on and analysis of Indian websites devoted to contemporary politics, society, economics and culture. (You will be expected to spend some time before every class visiting one or more from the list of websites I will provide) The rest of the class will be devoted to discussion and lecture of assigned readings, which will include the writings both of those actively involved in the social transformations being studies, and the writings of scholars and intellectuals now reflecting on these changes.
Style: 50% Lecture, 50% Discussion.
Grading: 40% reports/papers, 40% journal, 20% class participation. Evaluation will be on the basis of three components: daily journal responses (40%), final essay length paper of approx. 2500-3000 words (40%); and class participation (20%).
Exam Format: Essay

GloS 3970 Topics in African Area Studies: North Africa since 1500: Islam and Colonialism
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Schroeter,Daniel J
Description: This course examines the history of the Maghrib (Morocco, Algeria, Tunisia, Libya, and the disputed territories of the Western Sahara), from the time of Ottoman expansion and the Moroccan dynasties (Sa’dian and ‘Alawid) in the 16th and 17th centuries to the end of the 20th century. The Maghrib was at the crossroads of the Mediterranean, Middle Eastern and Sub-Saharan African worlds. We focus on the encounter of Islamic cultures and societies of the Maghrib with Africa and Europe, European colonial rule in the 19th and 20th centuries, nationalism, revolution, and independence in the post-colonial period in the latter half of the 20th century. We conclude with an examination of the challenges facing Morocco, Algeria, Tunisia, and Libya in recent decades; issues that have come to the forefront of debates about the "Arab Spring": economic development, women's rights and equality, authoritarianism and democracy, political Islam, and the struggle for Amazigh (Berber) culture and identity.

Style: 70% Lecture, 15% Discussion, 15% Small Group Activities.

Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% in-class presentation.

GloS 3981W Major Project Seminar
A-F only, 3 credit(s);Meets CLE req of Writing Intensive
Instructor: Raheja,Gloria Goodwin
Description: Student may contact the instructor or department for information.

GloS 3981W Major Project Seminar
A-F only, 3 credit(s);Meets CLE req of Writing Intensive
Instructor: McLean,Stuart J
Description: Student may contact the instructor or department for information.

GloS 3993 Directed Study
1-5 credit(s), max credits 12, 12 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

GloS 4305 Society and the Environment: A Growing Conflict
A-F only, 3 credit(s);SOC 1001 or environmental course or instr consent Credit will not be granted if credit has been received for: SOC 4305;
Instructor: Broadbent,Jeffrey Praed
Description: Over the past 150 years, human society's effect on its local and global environment has increased dramatically. Nowadays, those environmental harms are more and more coming back to harm humans as well as other species. The biggest example of this negative feedback is global climate change. If humanity continues to pour greenhouse gasses like carbon dioxide into the atmosphere, it will get hit with intensifying disasters. According to James Hansen, these could eventually even wipe out the human species. This course explores why this situation has come about and what we can do about it. Three factors: growth of population, growth capacity to buy more stuff, and the technology to make lots of stuff—all these require energy produced by burning fossil fuels that emits carbon dioxide into the atmosphere. We need to understand why we as a group, despite available information, have let this problem get so bad. Only then can we overcome this inertia and plot an attainable course toward sustainable world.
Grading: Grading for this course is based primarily on short essays and exercises.

GloS 4311 Race, Class, and the Politics of Nature
A-F only, 3 credit(s);Credit will not be granted if credit has been received for: SOC 4311;
Instructor: Pellow,David
Description: This course introduces students to the theoretical and historical foundations of environmental racism and environmental inequality. We will examine and interrogate both the social scientific evidence concerning this phenomenon and the efforts by governments, residents, workers, and activists to combat it. We will consider the social forces that create environmental inequalities, so that we may understand their causes and consequences. We will also consider ideas and practices that may lead to 1) a more equitable social distribution of the costs and benefits of markets and 2) more ecologically sustainable forms of production. Students will be expected to master several social scientific theories and concepts related to the subject matter. In particular, we pay close attention to the ways in which the concept of race intersects with gender, class, citizenship, and nation in order to better understand how systems of power and inequality are constructed, reinforced, and challenged.
Style: 65% Lecture, 10% Film/Video, 15% Discussion, 5% Small Group Activities, 5% Guest Speakers. service learning component is optional
Grading: 30% mid exam, 30% final exam, 10% quizzes, 20% written homework, 10% class participation.
Exam Format: Both the midterm and final exams will be take home tests requiring the use of course readings, lectures, discussions, and films to answer questions.

GloS 4910 Topics in Global Studies: The Struggle for Democratization and Citizenship
4 credit(s), max credits 12, 3 completions allowed;
Instructor: Nimtz Jr., August H
Description: The setting for this course is the mounting effort on the part of states and a variety of social forces to roll back the historic gains of the world-wide democratic movement--from anti-immigrant campaigns (in both fascist and non-fascist clothing) that would limit citizenship rights to efforts that undermine civil liberties in the guise of combating terrorism. This takes place in a larger context in which increasing numbers of citizens feel disempowered and alienated from the state. As democracy and popular participation are central to citizenship the course traces the origins of the democratic process with particular emphasis on how the disenfranchised fought to become included. Both implicitly and explicitly it seeks to understand how that occurred in order to see if there are lessons of the past that might have applicability for the defense and extension of democratic rights today. To understand it was the disenfranchised who empowered themselves is in itself empowering. An underlying assumption of the course is that the inclusion of previously disenfranchised layers of society into the category of citizens is due to social struggles or the threat of such--an assumption to be examined in the course.

Style: 75% Lecture, 25% Discussion.
Grading: 25% mid exam, 50% final exam, 25% reports/papers.
Exam Format: Essay

GloS 5900 Topics in Global Studies: Reframing Mass Violence-Human Rights/Social Memory
1 credit(s), max credits 12, 3 completions allowed;
Instructor: Frey, Barbara A
Description: REFRAMING MASS VIOLENCE: HUMAN RIGHTS AND SOCIAL MEMORY IN LATIN AMERICA AND SOUTHERN EUROPE (1 Credit - Topics Course) This course will explore the particular developments and transnational entanglements of social memories in societies revisiting their legacies of dictatorship, state terror, and grave human rights violations. The focus will be on Latin America and Southern Europe and the contemporary processes of re-interpretation and re-framing of a) the atrocities themselves and b) the transitional justice models that were adopted in their aftermaths. The course is organised as a lecture series in which experts from the countries of study will discuss their work and engage in dialogue with local scholars and students. The course will be co-facilitated by Barbara Fry (Human Rights Program), Ana Forcinito (Spanish and Portuguese) and Alejandro Baer (Sociology, Center for Holocaust and Genocide Studies). This course is part of a Research Collaborative funded by the Institute of Advanced Studies. Session will take place in Room 235 NOLTE (East Bank).
Style: 20% Lecture, 10% Film/Video, 70% Guest Speakers. Seminar will meet on the following Thursdays from 3pm to 4.30pm Jan 23, Feb 6, Feb 20, March 6, March 27, April 10, April 24, May 8
Grading: 100% reports/papers. Pass/No Pass

GloS 5993 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

GloS 5994 Directed Research
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Graduate School 316 Johnston Hall

Grad 5102 Preparation for University Teaching for Nonnative English Speakers
S-N only, 2 credit(s);
Instructor: Beers, Barbara Lee
Description:

Grad 5105 Practicum in University Teaching for Nonnative English Speakers
S-N only, 2 credit(s);
Instructor: Meyers, Colleen Marie
Description:

Grad 5105 Practicum in University Teaching for Nonnative English Speakers
S-N only, 2 credit(s);
Instructor: Toscano, Caroline Frances
Description:

Grad 8101 Teaching in Higher Education
Grad 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: Gonzalez, Anita
Description: Student may contact the instructor or department for information.

Grad 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: Ching, Paul
Description: Student may contact the instructor or department for information.

Grad 8101 Teaching in Higher Education
OPT No Aud, 3 credit(s);
Instructor: Petersen, Christina Ingrid
Description: Student may contact the instructor or department for information.

Grad 8200 Teaching and Learning Topics in Higher Education
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Alexander, Ilene Dawn
Description: Student may contact the instructor or department for information.

Grad 8200 Teaching and Learning Topics in Higher Education
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Rozaitis, Bill
Description: Student may contact the instructor or department for information.

Graphic Design 240 McNeal Hall

GDes 1311 Foundations: Drawing and Design in Two and Three Dimensions
A-F only, 4 credit(s);
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

GDes 1312 Foundations: Color and Design in Two and Three Dimensions
A-F only, 4 credit(s);
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

GDes 1315 Foundations: The Graphic Studio
A-F only, 4 credit(s);
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

**GDes 2196 Work Experience in Graphic Design**
- **S-N only, 1-4 credit(s), max credits 8;**
- **Instructor:** Hokanson, Brad
- **Description:** Student may contact the instructor or department for information.

**GDes 2196 Work Experience in Graphic Design**
- **S-N only, 1-4 credit(s), max credits 8;**
- **Instructor:** Martinson, Barbara Elizabeth
- **Description:** Student may contact the instructor or department for information.

**GDes 2196 Work Experience in Graphic Design**
- **S-N only, 1-4 credit(s), max credits 8;**
- **Instructor:** Waldron, Carol C
- **Description:** Student may contact the instructor or department for information.

**GDes 2196 Work Experience in Graphic Design**
- **S-N only, 1-4 credit(s), max credits 8;**
- **Instructor:** Chu, Sauman
- **Description:** Student may contact the instructor or department for information.

**GDes 2196 Work Experience in Graphic Design**
- **S-N only, 1-4 credit(s), max credits 8;**
- **Instructor:** Boyd Brent, James W
- **Description:** Student may contact the instructor or department for information.

**GDes 2196 Work Experience in Graphic Design**
- **S-N only, 1-4 credit(s), max credits 8;**
- **Instructor:** McCarthy, Steven J
- **Description:** Student may contact the instructor or department for information.

**GDes 2196 Work Experience in Graphic Design**
- **S-N only, 1-4 credit(s), max credits 8;**
- **Instructor:** Park, Eugene B
- **Description:** Student may contact the instructor or department for information.

**GDes 2196 Work Experience in Graphic Design**
- **S-N only, 1-4 credit(s), max credits 8;**
- **Instructor:** Jasper, Daniel
- **Description:** Student may contact the instructor or department for information.

**GDes 2342 Web Design**
- **A-F only, 3 credit(s);**
- **Instructor:** Trice, Frances
- **Description:** Student may contact the instructor or department for information.

**GDes 2342 Web Design**
- **A-F only, 3 credit(s);**
- **Instructor:** Park, Eugene B
- **Description:** Student may contact the instructor or department for information.

**GDes 2345 Typography**
- **A-F only, 4 credit(s);**
- **Instructor:** STAFF
- **Description:** Typographic Design is an introduction to the art of visual communication: the visual realization of a most basic element of communication—the word. The history of typographic forms, principles of composition, and the expressive
potential of type will be explored though reading, research, exercises, and design production. Sequential studies will follow
the design process: problem-solving through exploration, experimentation, selection, critique, and refinement.
Effectiveness of typographic design will be evaluated in terms of legibility, readability, and expression: the direct correlation
to gestalt design principles will be evident. Assignments include textbook readings, research from additional sources,
analysis and critique of found design, and, primarily, studio design production. Studio assignments will involve both
handwork, to train the eye and hand; and digital typographic design and illustration using QuarkXpress and Illustrator.
Class sessions will be held in both classrooms and Macintosh studios. This class is for Graphic Design majors who have
passed portfolio review only.
Style: 10% Lecture; studio; 30% critique
Grading: 100% other evaluation. studio design projects including process participation

GDes 2399W Design and its Discontents: Design, Society, Economy and Culture
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Design and its Discontents is a prerequisite to Senior Thesis. Students are introduced to research and critical
writing assignments pertinent to graphic design. Readings, lecture, discussion, and research inform written project
proposals, studio production, reflection, and blogging. The course considers dialectics, theory, and ethics in the
contemporary academic and professional landscape of graphic design. Assignments are referred to as research projects,
which introduce principles and practices of critical and investigative research, beginning with an examination of the self as
student?designer?consumer. Inquiry throughout the semester extends and addresses the overlapping realms of design,
society, culture and the economy of graphic design. Themes of consumerism, sustainability, advertising message, branding
and consumption are studied as they relate to graphic design.
Style: 40% Lecture, 20% Discussion, 20% Small Group Activities, 20% Student Presentation.
Grading: Attendance and participation are factors in grading but do not maintain a percent of the grade. More than 2
absences and lack of participation in discussions & presentations can result in a lower grade.
Exam Format: There are no exams in this course.

GDes 3312 Color and Form in Surface Design
A-F only, 4 credit(s);
Instructor: STAFF
Description: In this course, students will work on surface design projects involving printing, mostly on paper and fabric. All
projects are centered around hands on creative production and the further development of the application of color in
design. The technical emphasis of the course is screen printing, but coursework also allows students the possibility of
experimentation with mixed media ?for example, letterpress, relief printing, laser printing, monoprinting, and dyeing. The
final project consists of a "making" component: surface design will be applied to products. Students will engage throughout
the semester with effective use of design principles, and are challenged to apply a conceptual approach to their work. Each
project is evaluation in terms of design criteria as well as its production quality. Projects are tailored to suit the research
interests of both graphic design and apparel design students.

GDes 3351 Text and Image
A-F only, 3 credit(s);
Instructor: STAFF
Description: Text and Image considers the inter-relationships between pictures and words and how they communicate
visually and literally using design principles and elements. Emphasis is placed on series, sequences and narrative using
print-oriented media. Page layout and pagination are considered in the context of publication design challenges. Some
exposure to off-set printing technology (digital image file types, CMYK and Pantone color systems, paper terminology and
binding structures) is imparted through an applied project.

GDes 3352 Identity and Symbols
A-F only, 3 credit(s);
Instructor: STAFF
Description: This course will build on previously learned graphic design principles including a continued investigation of
typography and its application. Students will explore the representation of abstract ideas in the form of symbols for the
purpose of building identity. The class will focus on the development of visual identity through a systems approach to
design with application to various printed collateral. This course will prepare students to design a symbol, a logotype,
stationary system and collateral products, keeping the identity consistent and intact throughout the process. Students will
apply gestalt design principles, figure-ground relationships, and contrast within the structure of the grid to aid organization
from piece to piece and within the whole.
Style: 25% Lecture, 40% Discussion, 5% Service Learning.
Grading: 90% special projects, 5% attendance, 5% class participation.

GDes 3353 Packaging and Display
A-F only, 3 credit(s);
Description: Packaging and Display exposes students to experimental and applied opportunities regarding the packaging and display of consumer goods. Issues concerning packaging?s role in containing, distributing, marketing and storage are explored, with a particular emphasis on sustainable practices (reduce, re-use, recycle). Food packaging is done using FDA regulations. Product development and entrepreneurial approaches are manifest in creative projects. Display considers the packaging brand in the environments of retail, festival, event or other three-dimensional spaces.

GDes 3353 Packaging and Display
A-F only, 3 credit(s);
Instructor: Pickman,Gregory Hunter
Description: Student may contact the instructor or department for information.

GDes 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Hokanson,Brad
Description: Student may contact the instructor or department for information.

GDes 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Martinson,Barbara Elizabeth
Description: Student may contact the instructor or department for information.

GDes 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Waldron,Carol C
Description: Student may contact the instructor or department for information.

GDes 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Chu,Sauman
Description: Student may contact the instructor or department for information.

GDes 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Boyd Brent,James W
Description: Student may contact the instructor or department for information.

GDes 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: McCarthy,Steven J
Description: Student may contact the instructor or department for information.

GDes 4193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Hokanson,Brad
Description: Student may contact the instructor or department for information.

GDes 4193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Martinson,Barbara Elizabeth
Description: Student may contact the instructor or department for information.

GDes 4193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Waldron,Carol C
GDes 4193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Chu,Sauman
Description: Student may contact the instructor or department for information.

GDes 4193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Boyd Brent,James W
Description: Student may contact the instructor or department for information.

GDes 4193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: McCarthy,Steven J
Description: Student may contact the instructor or department for information.

GDes 4193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Park,Eugene B
Description: Student may contact the instructor or department for information.

GDes 4193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Jasper,Daniel
Description: Student may contact the instructor or department for information.

GDes 4196 Internship in Graphic Design
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent [added to PS note field, course notes sequence nbr 3:] credit will not be granted if credit already received for: DHA 4196Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Hokanson,Brad
Description: Student may contact the instructor or department for information.

GDes 4196 Internship in Graphic Design
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent [added to PS note field, course notes sequence nbr 3:] credit will not be granted if credit already received for: DHA 4196Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Martinson,Barbara Elizabeth
Description: Student may contact the instructor or department for information.

GDes 4196 Internship in Graphic Design
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent [added to PS note field, course notes sequence nbr 3:] credit will not be granted if credit already received for: DHA 4196Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Waldron,Carol C
Description: Student may contact the instructor or department for information.

GDes 4196 Internship in Graphic Design
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent [added to PS note field, course notes sequence nbr 3:] credit will not be granted if credit already received for: DHA 4196Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Chu,Sauman
Description: Student may contact the instructor or department for information.
GDes 4196 Internship in Graphic Design
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent [added to PS note field, course notes sequence nbr 3:] credit will not be granted if credit already received for: DHA 4196Credit will not be granted if credit has been received for: ADES 4196;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

GDes 4196 Internship in Graphic Design
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent [added to PS note field, course notes sequence nbr 3:] credit will not be granted if credit already received for: DHA 4196Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Park, Eugene B
Description: Student may contact the instructor or department for information.

GDes 4196 Internship in Graphic Design
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed; Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent [added to PS note field, course notes sequence nbr 3:] credit will not be granted if credit already received for: DHA 4196Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

GDes 4330 Surface Fabric Design Workshop
A-F only, 4 credit(s), max credits 8;
Instructor: Martinson, Barbara Elizabeth
Description: Student may contact the instructor or department for information.

GDes 4345 Advanced Typography
A-F only, 4 credit(s);
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

GDes 4361W Thesis Studio and Writing
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Senior Thesis and Writing uses writing, reading, researching and critical decision making to propose a comprehensive senior thesis project. A 'writing intensive' course, students will do different types of writing to give their concepts intellectual muscle: reflection, criticism, research, and through the design of a book of their writings, design authorship. Part seminar, part studio, Senior Thesis and Writing precedes Senior Thesis and Exhibition.

GDes 4362 Senior Thesis and Exhibition
A-F only, 4 credit(s);
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

GDes 4362 Senior Thesis and Exhibition
A-F only, 4 credit(s);
Instructor: Pickman, Gregory Hunter
Description: Student may contact the instructor or department for information.

GDes 5193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
GDes 5193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Martinson, Barbara Elizabeth
Description: Student may contact the instructor or department for information.

GDes 5193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

GDes 5193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Chu, Sauman
Description: Student may contact the instructor or department for information.

GDes 5193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Boyd Brent, James W
Description: Student may contact the instructor or department for information.

GDes 5193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Park, Eugene B
Description: Student may contact the instructor or department for information.

GDes 5193 Directed Study in Graphic Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

GDes 5341 Interactive Design
A-F only, 3 credit(s); [2334 or 2342], design minor] or graphic design major or grad student or instr consent credit will not be granted if credit already received for: 5341Credit will not be granted if credit has been received for: DHA 4384;
Instructor: Wang, Angela
Description: Student may contact the instructor or department for information.

GDes 5342 Web and Interface Design
A-F only, 3 credit(s);
Instructor: Park, Eugene B
Description: Building upon the foundations of web design, this class addresses the opportunities and complexities in graphic design applied to the development of websites and mobile applications. This approach requires analysis of informational content, the context in which this will function to a target audience, data from usability testing, and to explore options for re-telling or introducing content in visually meaningful and engaging ways.

GDes 5399 Theory of Electronic Design
A-F only, 3 credit(s);
Instructor: Daigle, Gregory
Description: Student may contact the instructor or department for information.

GDes 8192 Readings in Graphic Design
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.

GDes 8192 Readings in Graphic Design
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Martinson, Barbara Elizabeth  
Description: Student may contact the instructor or department for information.

GDes 8192 Readings in Graphic Design  
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.

GDes 8192 Readings in Graphic Design  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Chu, Sauman  
Description: Student may contact the instructor or department for information.

GDes 8192 Readings in Graphic Design  
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.

GDes 8192 Readings in Graphic Design  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: McCarthy, Steven J  
Description: Student may contact the instructor or department for information.

GDes 8192 Readings in Graphic Design  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Park, Eugene B  
Description: Student may contact the instructor or department for information.

GDes 8192 Readings in Graphic Design  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Jasper, Daniel  
Description: Student may contact the instructor or department for information.

GDes 8193 Directed Study  
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.

GDes 8193 Directed Study  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Martinson, Barbara Elizabeth  
Description: Student may contact the instructor or department for information.

GDes 8193 Directed Study  
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.

GDes 8193 Directed Study  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
Instructor: Chu, Sauman  
Description: Student may contact the instructor or department for information.

GDes 8193 Directed Study  
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.

GDes 8193 Directed Study
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

GDes 8193 Directed Study
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Park, Eugene B
Description: Student may contact the instructor or department for information.

GDes 8193 Directed Study
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

GDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Hokanson, Brad
Description: Student may contact the instructor or department for information.

GDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Martinson, Barbara Elizabeth
Description: Student may contact the instructor or department for information.

GDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

GDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Chu, Sauman
Description: Student may contact the instructor or department for information.

GDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Boyd Brent, James W
Description: Student may contact the instructor or department for information.

GDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

GDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

GDes 8361 Color, Design, and Human Perception
A-F only, 3 credit(s);
Instructor: Martinson, Barbara Elizabeth
Description: Student may contact the instructor or department for information.

GDes 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12;
Instructor: Hokanson, Brad
Description: Student may contact the instructor or department for information.
GDes 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12;
Instructor: Martinson,Barbara Elizabeth
Description: Student may contact the instructor or department for information.

GDes 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12;
Instructor: Waldron, Carol C
Description: Student may contact the instructor or department for information.

GDes 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12;
Instructor: Chu, Sauman
Description: Student may contact the instructor or department for information.

GDes 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12;
Instructor: Boyd Brent, James W
Description: Student may contact the instructor or department for information.

GDes 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12;
Instructor: McCarthy, Steven J
Description: Student may contact the instructor or department for information.

GDes 8990 MFA Creative Thesis
A-F only, 6 credit(s), max credits 12;
Instructor: Jasper, Daniel
Description: Student may contact the instructor or department for information.

Greek 245 Nicholson Hall

Grk 1002 Beginning Classical Greek II
5 credit(s);
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); [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 Credit will not be granted if credit has been received for: GRK 5004;
Instructor: Seaberg, Ryan
Description: Student may contact the instructor or department for information.

Grk 4951W Major Project
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Krevans, Nita
Description: Student may contact the instructor or department for information.

Grk 5100 Advanced Reading: Herodotus
3 credit(s), max credits 18, 6 completions allowed;
Instructor: Smith, Stephen
Description: "Yesterday I went day to the Piraeus." These unassuming words are the opening of one of the most influential works in the history of Western thought: Plato's 'Politeia,' better known as the 'Republic.' Taking its start, as do many of Plato's dialogues, from a deceptively simple question?in this case, "what is justice?"?the 'Republic' opens out into a sketch
of one of the earliest known literary utopias, an ideal state ruled by philosopher-kings. Along the way Plato, in the guise of his teacher Socrates, talks about the nature of education and society, including both some notorious opinions on the role of poetry in the state and the famous Allegory of the Cave, an extended metaphor for the mind's journey toward an understanding of the true nature of the world. During this course we will read in Greek the entirety of "Republic" I and, as time permits, selections including the Allegory of the Cave and the Myth of Er; we will also read (in English) and discuss the entire text. Grading will be based on a combination of quizzes, tests, one or two short papers, and participation.

**Grk 5800 Sight Reading for Graduate Students**
- S-N only, 1 credit(s), max credits 6, 6 completions allowed;
- Instructor: Nappa, Christopher
- Description: Student may contact the instructor or department for information.

**Grk 8400 Readings in Patristic Greek**
- 3 credit(s), max credits 6;
- Instructor: Sellew, Philip
- Description: Student may contact the instructor or department for information.

### Health Informatics 777 Mayo (Mayo Mail Code 511)

**HInfo 5431 Health Informatics II**
- A-F only, 3 credit(s);
- Instructor: Pieczkiewicz PhD, David Sean
- Description: An introductory survey of health informatics, focusing on applications of informatics concepts and technologies. Topics covered include: health informatics research, literature, and evaluation; decision models; computerized decision support systems; data mining, natural language processing, and other emerging technologies for supporting "big data" applications; ethics and security for health care information handling. Lectures, readings, and exercises will highlight the intersections of these topics with current information technology for clinical care and research.

**Hinfo 5436 Seminar**
- S-N only, 1 credit(s);
- Instructor: Gatewood PhD, Lael Cranmer
- Description: Student may contact the instructor or department for information.

**HInfo 5496 Internship in Health Informatics**
- S-N only, 1-6 credit(s), max credits 18, 3 completions allowed;
- Instructor: Pieczkiewicz PhD, David Sean
- Description: Student may contact the instructor or department for information.

**Hinfo 5499 Capstone Project for the Masters of Health Informatics**
- A-F only, 3 credit(s);
- Instructor: Gatewood PhD, Lael Cranmer
- Description: Student may contact the instructor or department for information.

**HInfo 5501 US Health Care System: Information Challenges in Clinical Care**
- S-N only, 0-1 credit(s), max credits 1, 1 completion allowed;
- Instructor: Speedie, Stuart M
- Description: Student may contact the instructor or department for information.

**Hinfo 5502 Programming Essentials Python 3**
- S-N only, 1 credit(s), max credits 2, 1 completion allowed;
- Instructor: Pieczkiewicz PhD, David Sean
- Description: Student may contact the instructor or department for information.

**Hinfo 5520 Clinical Informatics and Patient Safety**
- A-F only, 2 credit(s);
- Instructor: Khairat PhD, Saif
- Description: Student may contact the instructor or department for information.

**Hinfo 5531 Health Data Analytics and Data Science**
A-F only, 2 credit(s);
Instructor: Pieczkiewicz PhD, David Sean
Description: Student may contact the instructor or department for information.

HInf 8406 Advanced Topics in Health Informatics II: Data Visualization
2 credit(s), max credits 9, 3 completions allowed;
Instructor: Pieczkiewicz PhD, David Sean
Description: Student may contact the instructor or department for information.

HInf 8406 Advanced Topics in Health Informatics II: User Interface Design and Usability in Healthcare
2 credit(s), max credits 9, 3 completions allowed;
Instructor: Khairat PhD, Saif
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: LaVenture, Marty
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Westra, Bonnie L.
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Adam, Terrence Joseph
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Pakhomov, Sergei V
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Ellis, Lynda B
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Faughnan MD, John Gordon
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Pieczkiewicz PhD, David Sean
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Finkelstein, Stanley M
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Gatewood PhD, Lael Cranmer
Description: Student may contact the instructor or department for information.
HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Speedie, Stuart M
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Chute, Christopher G
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Parente, Stephen T
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Khairat PhD, Saif
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Raman, Sivakumaran
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Simon, Gyorgy Janos
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Delaney, Connie White
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Rudrapatna, Venkatesh K
Description: Student may contact the instructor or department for information.

HInf 8492 Advanced Readings in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Chi, Chih-Lin
Description: Student may contact the instructor or department for information.

HInf 8494 Research in Health Informatics
A-F only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Pieczkiewicz PhD, David Sean
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: LaVenture, Marty
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Westra, Bonnie L.
Description: Student may contact the instructor or department for information.
HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Adam, Terrence Joseph
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Pakhomov, Serguei V
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Ellis, Lynda B
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Faughnan MD, John Gordon
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Pieczkiewicz PhD, David Sean
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Finkelstein, Stanley M
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Gatewood PhD, Lael Cranmer
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Speedie, Stuart M
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Chute, Christopher G
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
A-F only, 4 credit(s);
Instructor: Parente, Stephen T
Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
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Instructor: Khairat PhD, Saif
Description: Student may contact the instructor or department for information.

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Description: Student may contact the instructor or department for information.
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HInf 8770 Plan B Project
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   Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
   A-F only, 4 credit(s);
   Instructor: Rudrapatna, Venkatesh K
   Description: Student may contact the instructor or department for information.

HInf 8770 Plan B Project
   A-F only, 4 credit(s);
   Instructor: Chi, Chih-Lin
   Description: Student may contact the instructor or department for information.

Health Professions

HP 4802 Health Economics and Finance
   A-F only, 3 credit(s), max credits 6; Meets CLE req of Diversity and Soc Justice US
   Instructor: Egginton, Jason
   Description: Student may contact the instructor or department for information.

HP 4902 Management and Leadership in Healthcare
   A-F only, 2 credit(s), max credits 4; Meets CLE req of Global Perspectives
   Instructor: Brown, Maria L.
   Description: Student may contact the instructor or department for information.

Health Systems Management  20 Ruttan Hall

HSM 3521 Health Care Delivery Systems
   A-F only, 3 credit(s);
   Instructor: Riley, William 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 restrictions. Students explore health care delivery systems including a review of health economics, third party and public reimbursement, and contemporary trends in health care organizations, management and administration. Regulations, standards, quality assurance, accreditation and ethical issues are considered in the context of contemporary medical practice. Future implications for the health care providers and professionals, patients and families, communities, and international health are included in this course.
   Style: Online
   Grading: See attached syllabus

HSM 4541 Health Care Finance
   A-F only, 3 credit(s);
   Instructor: McClernon, Susan Elizab
   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 to provide an understanding of finance in the health care industry through a discussion of how the health care 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.
   Style: Online
   Grading: See attached syllabus

HSM 4571 Introduction to Grant Writing for Health Care and Nonprofit Organizations
   A-F only, 3 credit(s);
   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, including fee and financial aid restrictions. This course will provide you with the tools needed to research and write grants in today's funding and political climate. Today, decreasing government funding at the local, regional, state, and federal levels, along with decreasing traditional educational and other social service funding has resulted in an increased need for nonprofit groups to find new or additional financial support. At the same time, government and nonprofit foundations are significantly increasing support for targeted health care research funding. Students will learn the basics of grant writing, including how to identify potential funding sources, and respond to a Request for Proposal by creating a needs assessment, goal statement, budget, and grant funding plans.

**Style:** Online  
**Grading:** See attached syllabus

### Hebrew

**245 Nicholson Hall**

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Grade Requirements</th>
<th>Instructors</th>
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<tbody>
<tr>
<td>Hebr 1002</td>
<td>Beginning Hebrew II</td>
<td>5</td>
<td>Grade of at least [C- or S] in [1001 or 4001] or instr consent</td>
<td>Schneller, Renana Segal</td>
</tr>
<tr>
<td>Hebr 1002</td>
<td>Beginning Biblical Hebrew II</td>
<td>5</td>
<td>Grade of at least [C- or S] in [1101 or 4104] or instr consent</td>
<td>Levinson, PhD, Bernard M.</td>
</tr>
<tr>
<td>Hebr 3012</td>
<td>Intermediate Hebrew II</td>
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<td>Grade of at least [C- or S] in 3011 or instr consent</td>
<td>Schneller, Renana Segal</td>
</tr>
<tr>
<td>Hebr 3951W</td>
<td>Major Project</td>
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<td>Meets CLE req of Writing Intensive</td>
<td>STAFF</td>
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<tr>
<td>Hebr 3980</td>
<td>Directed Instruction</td>
<td>1-4</td>
<td>max credits 4, 1 completion allowed</td>
<td></td>
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**Grading:**
- **Hebr 1002**: 20% mid exam, 25% final exam, 20% reports/papers, 25% quizzes, 10% class participation
- **Hebr 1102**: multiple choice, fill in the blank and a small essay
- **Hebr 3012**: 20% mid exam, 15% final exam, 25% reports/papers, 30% quizzes, 10% class participation
- **Hebr 3951W**: Student may contact the instructor or department for information.
Hebr 3993 Directed Studies
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Schneller, Renana Segal
Description: Student may contact the instructor or department for information.

Hebr 4002 Beginning Hebrew II
3 credit(s); Grade of at least [C- or S] in [1001 or 4001] or instr consent Credit will not be granted if credit has been received for: HEBR 1002;
Instructor: Schneller, Renana Segal
Description: Hebrew 4002 is intended for students who have completed Hebrew 4001 or the equivalent. The course emphasizes four language skills: speaking, writing, listening and reading. First year language courses involve extensive student interaction, partner activities, and group work. The text of the course, Hebrew from Scratch. The book is accompanied by CD's that are designed to be studied outside class. Grammar is covered in the homework assignments and reinforced in class with a variety of paired and small group activities. Hebrew is spoken almost exclusively in class. Class attendance is critical, the course prepares students for the CLA language requirements.
Style: 33% Lecture, 33% Discussion.
Grading: 20% mid exam, 25% final exam, 20% reports/papers, 25% quizzes, 10% class participation.
Exam Format: multiple choice, fill in the blank and a small essay

Hebr 4012 Intermediate Hebrew II
3 credit(s); Credit will not be granted if credit has been received for: HEBR 3012;
Instructor: Schneller, Renana Segal
Description: Student may contact the instructor or department for information.

Hebr 4105 Basics of Biblical Hebrew II
3 credit(s); 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;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Hindi-Urdu 220 Folwell Hall

HnUr 1012 Beginning Hindi-Urdu
5 credit(s); 1011 or instr consent credit will not be granted if credit already received for: HNDI 1102/4002 and URDU 1102/4002 Credit will not be granted if credit has been received for: HNUR 4002;
Instructor: Hong, Sungok
Description: Student may contact the instructor or department for information.

HnUr 3022 Intermediate Hindi-Urdu
5 credit(s); 3021 or instr consent credit will not be granted if credit already received for HNDI 3132/4004 or URDU 3132/4004 Credit will not be granted if credit has been received for: HNUR 4004;
Instructor: Hong, Sungok
HnUr 3032 Advanced Hindi-Urdu
4 credit(s); 3031 or instr consent credit will not be granted if credit already received for: HNDI 4162
Credit will not be granted if credit has been received for: HNUR 4006;
Instructor: Hong, Sungok
Description: Student may contact the instructor or department for information.

HnUr 3290 Hindi-Urdu Language Teaching Tutorial
S-N only, 1 credit(s), max credits 2;
Instructor: Hong, Sungok
Description: Student may contact the instructor or department for information.

HnUr 4002 Beginning Hindi-Urdu
3 credit(s); Grad student Concurrent registration is required (or allowed) in [4001 or instr consent ]
credit will not be granted if credit already received for: HNDI 1102/4002 and URDU 1102/4002
Credit will not be granted if credit has been received for: HNUR 1012;
Instructor: Hong, Sungok
Description: Student may contact the instructor or department for information.

HnUr 4004 Intermediate Hindi-Urdu
3 credit(s); Grad student, [4003 or instr consent ] credit will not be granted if credit already received for HNDI 3132/4004 or URDU 3132/4004
Credit will not be granted if credit has been received for: HNUR 3022;
Instructor: Hong, Sungok
Description: Student may contact the instructor or department for information.

HnUr 4006 Advanced Hindi-Urdu
3 credit(s); Grad student, [4005 or instr consent ] credit will not be granted if credit already received for: HNDI 4162
Credit will not be granted if credit has been received for: HNUR 3032;
Instructor: Hong, Sungok
Description: Student may contact the instructor or department for information.

HnUr 5993 Directed Readings
1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: STAFF
Description: Guided individual reading of Hindi texts. The focus differs from student to student, from short-story to novel, drama and poetry. Various genres of Hindi literature are studied from a variety of disciplinary perspectives: linguistic, literary and socio-cultural. Directed Studies in ALL and Asian languages are restricted to very special conditions, with the particulars established by the individual teacher upon department approval. Note: Directed Studies cannot be used to fulfill the core requirements of either the Major or Minor.
Style: one hour consultation/week
Grading: 100% special projects.

History

Hist 1000W Visions of the Past: Thematic Approaches to Understanding History: Global WWII History
4 credit(s), max credits 8; Meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: Mizuno, Hiromi
Description: This course examines World War II from the global perspective? not just from the European Theater or the Pacific Theater but also from other parts of the world. It approaches the war as a pivotal moment of the global and social reorganization in the twentieth century rather than as simply a military conflict. We'll pay special attention to how different countries interpret the war, and how the war shaped the rest of the twentieth century. The course is unique in that it takes full advantage of the history department faculty members with diverse expertise. In many weeks, various History Department faculty members will give a lecture based on his/her geographical and thematic specialization. Since this is a course on WWII from a global perspective, you will learn different, sometimes conflicting, interpretations of the war produced by various countries and peoples. You will also learn how understandings and interpretations of the war changed over time.
Style: 40% Lecture, 5% Film/Video, 5% Discussion, 10% Small Group Activities, 40% Guest Speakers. There will be exercises for writing papers in class.
Grading: 60% reports/papers, 15% quizzes, 25% reflection paper. Attendance is mandatory.

History 1110 Heller Hall
Hist 1012W The Age of Global Contact
4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: Isett, Christopher Mills
Description: This course will examine the history of the world from approximately 1500-1922. The course exams three major themes of the period: the rise of capitalism, imperialism, and revolution. Emphasis will be placed on reading and interpreting. The course is designed to meet the needs of history majors and non-majors alike. In addition to introducing students to the basics of how historians write history, we will teach students basic analytic skills. In discussion section, there will be serious emphasis on the development of writing skills. You will write four short papers in class. The instructor and TAs will guide you in the development of good note-taking skills (from reading and lecture). These will be the basis for your writing. The in-class essays are opportunities for you to explore the complex history of globalization...focusing especially on processes and making sense of them. We will use chime-in (a university web-based tool for fostering discussion) to help prepare for the essays.
Style: 70% Lecture, 30% Discussion.
Grading: 80% reports/papers, 20% in-class presentation.
Exam Format: in-class essays.

Hist 1032W Europe and the World: Expansion, Encounter, and Exchange from 1500 to Present
4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: Mason, Austin Prosser Johnson
Description: Student may contact the instructor or department for information.

Hist 1102 Medieval Tales and their Modern Echoes
3 credit(s); Credit will not be granted if credit has been received for: MEST 1002; Meets CLE req of Global Perspectives; meets CLE req of Literature
Instructor: Karras, Ruth Mazo
Description: Knights of Round Table, dragon-sayers, magic djinn, pilgrims in Hell. How stories have been retold in modern fiction, film, arts. Texts from Europe/other regions of globe. Stories from Western Europe, the Arab world, Persia, and China, as they were originally written and as they have been retold in fiction, film, video games and art. Fulfills LE requirements in Literature, Global Perspectives.

Hist 1302W Global America: U.S. History Since 1865
4 credit(s); Fr or soph or non-hist major Credit will not be granted if credit has been received for: HIST 1308; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: Welke, Barbara Young
Description: What were the circumstances that enabled the U. S. to develop into a super-power in the 20th century? How has the U. S. exercised power around the world? How did technological innovations from electricity, to the automobile, to film, to computers and the internet transform daily life, human meaning, and the exercise of state power? How is the recent/current economic crisis like and unlike the Great Depression of the 1930s? How did the Cold War shape the international movement for human rights and rights movements in the U. S. in the 1950s, '60s, and '70s? How did the U.S. and the rest of the world come to depend on oil? What's the relationship between deindustrialization in the U. S. in the 1970s and the development of the global assembly line? How did we move from the end of the Cold War to the War on Terror? How has the development of a global economy changed the experience of everyday life? These are some of the questions we will be asking with three specific goals: to put modern U. S. history (1865-present) in a global context; to provide a historical foundation for understanding the world we live in today; and to engage students in thinking about what history is. Specific topics include: the global significance of the American Civil War; the culture of American capitalism at home and abroad; immigration restriction and reform; post-WWII U. S. hegemony and the creation of the "three worlds"; sovereignty, rights movements, and human rights; global revolution and the rise of detente; petroleum economies and the Middle East; and life in the digital age. This is a writing intensive course and includes twice-weekly lectures and once a week discussion seminars. Grades will be based on critical analytical essays, quizzes, and seminar participation.
Style: 60% Lecture, 10% Film/Video, 30% Discussion.
Grading: 60% reports/papers, 20% quizzes, 20% class participation. There are 3 short take-home papers addressing lectures and readings; occasional quizzes in lecture; no exams; attendance is part of the participation grade
Exam Format: take-home essays

Hist 1902 Freshman Seminar: Masculinities in the Americas
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US
Instructor: Lindquist, Malinda A
Description: Student may contact the instructor or department for information.
Hist 3000W Visions of the Past: Thematic Approaches to Understanding History: Global WWII History
4 credit(s), max credits 8; Meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: Mizuno, Hiromi
Description: This course examines World War II from the global perspective—not just from the European Theater or the Pacific Theater but also from other parts of the world. It approaches the war as a pivotal moment of the global and social reorganization in the twentieth century rather than as simply a military conflict. We'll pay special attention to how different countries interpret the war, and how the war shaped the rest of the twentieth century. The course is unique in that it takes full advantage of the history department faculty members with diverse expertise. In many weeks, various History Department faculty members will give a lecture based on his/her geographical and thematic specialization. Since this is a course on WWII from a global perspective, you will learn different, sometimes conflicting, interpretations of the war produced by various countries and peoples. You will also learn how understandings and interpretations of the war changed over time.
Style: 40% Lecture, 5% Film/Video, 5% Discussion, 10% Small Group Activities, 40% Guest Speakers. There will be exercises for writing papers in class.
Grading: 60% reports/papers, 15% quizzes, 25% reflection paper. Attendance is mandatory.

Hist 3010W Historical Research Seminar: 20th Century Gender History
A-F only, 3 credit(s), max credits 12, 4 completions allowed; 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: The Arab Spring
A-F only, 3 credit(s), max credits 12, 4 completions allowed; Meets CLE req of Writing Intensive
Instructor: Hakim, Carol
Description: Student may contact the instructor or department for information.

Hist 3011 Measuring the Past: Quantitative Methods for Historical Research
4 credit(s); Credit will not be granted if credit has been received for: HIST 5011; Meets CLE req of Mathematical Thinking
Instructor: Ruggles, Steven
Description: The purpose of this course is to equip students with the skills and confidence to count things creatively. It will introduce the methods used by economic and demographic historians to answer questions about the past with quantitative data. In addition to statistical methods and data management, we will cover research design and measurement issues. By the end of the course, you should be able to: * Develop testable research questions * Design an analysis that will answer your questions * Apply appropriate measurement strategies and statistical techniques * Critically read and understand quantitative historical research The course meets the Liberal Education Mathematical Thinking requirement, which means that it goes beyond rote computational skills. Students will gain broad understanding of mathematical thinking and quantitative analysis as a body of knowledge. In addition, students will learn specific analytic tools that have broad application for understanding the quantitative dimensions of historical change. The course emphasizes the logic of quantitative measurement rather than cookbook recipes for statistical analysis. Students will be expected to manipulate equations both to understand the probabilistic basis of statistical analysis and to apply demographic and economic methods to historical data. We will focus on four general areas: 1. Methods and statistics We will move quickly through elementary statistics (percentages, means, basic probability and tests of statistical significance, bivariate regression and correlation) and then turn to more advanced topics of special significance for historians (e.g., sample designs, family reconstitution, multiple standardization and demographic decomposition, indexes, measures of inequality). 2. Data management, software, and computers We will focus on the use of SPSS for Windows and Microsoft Excel. We will also briefly cover several other programs for quantitative analysis. The topics covered will include design of data collections, data entry, analysis of microdata, management of hierarchical data, making graphs, mapping, and techniques of aggregate data analysis. 3. Principles of measurement and presentation of quantitative information These often-neglected topics are the heart of the course. They include the principles and philosophy of measurement, research designs and data sources, and aesthetic considerations in the presentation of quantitative findings. Choosing what to measure and how to measure it is a vital skill, and the most advanced statistics in the world won't help you if you haven't got it right. In fact, very often clever measurement strategies can actually save you from having to use fancy statistics. Presentation is also critically important, especially for historians because our audience is often innumerate. Measurement and presentation issues will permeate all aspects of the course, and will be the sole focus of several classes.
Style: 20% Lecture, 20% Discussion, 20% Laboratory, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 40% special projects, 15% quizzes, 15% written homework, 10% attendance, 10% in-class presentation, 10% class participation. The special project is a group poster project with original research (individual project for graduate students).

Hist 3053 Ancient Civilization: Rome
3 credit(s); Meets CLE req of Historical Perspectives
Hist 3061 "Bread and Circuses": Spectacles and Mass Culture in Antiquity
3 credit(s);
Instructor: Gallia, Andrew B
Description: This course traces the development of large-scale public entertainments in the ancient Mediterranean world, from the athletic contests of Olympia and dramatic festivals of Athens to the chariot races and gladiatorial games of the Roman Empire. Through lecture, discussions, and readings, we will explore the wider significance of these spectacles in their impact on the political, social, and economic life of the societies that supported them. Enrollment is open to all interested undergraduates.
Grading: 20% mid exam, 40% final exam, 30% reports/papers, 10% class participation.
Exam Format: essay

Hist 3066 Rise of Civilization
3 credit(s);
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Hist 3102 Medieval Tales and their Modern Echoes
3 credit(s);
Instructor: Karras, Ruth Mazo
Description: Knights of Round Table, dragon-slayers, magic djinn, pilgrims in Hell. How stories have been retold in modern fiction, film, arts. Texts from Europe/other regions of globe. Stories from Western Europe, the Arab world, Persia, and China, as they were originally written and as they have been retold in fiction, film, video games and art. Fulfills LE requirements in Literature, Global Perspectives.

Hist 3152 British History From the Seventeenth Century
4 credit(s);
Instructor: Clark, Anna Kirsten
Description: This course covers British history from the 17th century, a dramatic era beginning with the Civil War and the execution of Charles I. Britain then entered the convulsions of the industrial revolution and the burgeoning and rebellious Atlantic world. During the 19th century, Britain became a superpower, the most wealthy and powerful nation, complacent in its Victorian values and confident it could rule the world. After all, the sun never set on the British empire. But during the 20th century, the colossus faltered, after the disillusionment of the first world war and the devastating depression. Heroism returned with the Battle of Britain, but after World War II, Britain lost its empire. However, Britain rebuilt, establishing a welfare state which guaranteed health care to all, and regenerating its prosperity. We will take the story up to the present, looking at Thatcher's rise and fall, and the rebirth of multicultural Cool Britannia. For more information write clark106@tc.umn.edu.

Hist 3211 History of Sexuality in Europe
A-F only, 3 credit(s);
Instructor: Clark, Anna Kirsten
Description:

Hist 3244 History of Eastern Europe
3 credit(s);
Instructor: Cohen, Gary B.
Description: This course meets LIBERAL EDUCATION requirements for the Historical Perspectives Core and the Global Perspectives Theme. The course treats the history of the East European peoples from the end of the nineteenth century to the end of the twentieth. It examines the rise of nationalist movements and the multinational empires in this region before World War I; the winning of national independence in 1918; the political, social, and economic problems of the newly independent states between 1918 and 1938; the impact of Nazi expansionism and genocide; the advent of communist rule after 1945; the Stalinist governing systems; post-Stalinist reform efforts and dissident movements; the collapse of the communist governments; and the beginnings of the post-communist era. The course is open to history majors and non-
majors and is conducted in a mixed lecture-discussion format. The course readings will include a general survey, more specialized readings and contemporary documents. There will be two mid-term examinations and a third examination during the finals period covering the last one-third of the course. One 8-10 page essay will be assigned during the semester in answer to questions distributed in class and based on the course readings.

**Style:** 60% Lecture, 40% Discussion.

**Grading:** 40% mid exam, 20% final exam, 25% reports/papers, 15% class participation. Two mid-semester exams, 20% each

**Exam Format:** Five identification items from a list of ten possible items; one essay from a choice of three questions.

**Hist 3265 20th-Century Russia: The Collapse of Imperial Russia, the Revolutions, and the Soviet Regime**

3 credit(s); Credit will not be granted if credit has been received for: HIST 5265;

**Instructor:** Stavrou, Theofanis G

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

**Hist 3348 Women in Modern America**

3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: GWSS 3408;

**Instructor:** Jahnke-Wegner, Joanne M

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

**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 Global Perspectives; meets CLE req of Historical Perspectives; 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 3414 Missionary Encounters: Evangelism and Empire in the Early Modern World**

3 credit(s);

**Instructor:** Gerbner, Katharine

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

**Hist 3417 Food in History**

3 credit(s); Meets CLE req of Environment; meets CLE req of Historical Perspectives

**Instructor:** Perez, Bernadette J

**Description:** In our contemporary moment, we are fixated on food. When we're not watching celebrity chefs on TV, we're worrying about E. coli in our peanuts or the obesity epidemic. This course is intended to help students understand the historical roots of our current food system and the broader implications of the production and consumption of food. We will also consider how humans' dietary practices and the meanings we attribute to food are socially and historically constructed. Though the course will focus on the historical roots of our contemporary food system in the United States, we will look east across the Atlantic, west across the Pacific, and south towards Latin America. The course will be organized around three themes: food and power, food and identity, and food and the environment. We will look at how the expansion of European colonialism and global trade, the transatlantic slave system, industrialization, and proletarian migrations transformed global diets. We will discuss how foods have helped to create and reinforce social hierarchies. We will look at food in relation to power, labor, identity, gender, culture, health, and environmental transformation and sustainability. The course will conclude by examining contemporary issues including the global spread of the fast food, biotechnology and the green revolution, body image, and fusion cuisine.

**Style:** 40% Lecture, 15% Film/Video, 30% Discussion, 15% Small Group Activities.

**Exam Format:** Essay

**Hist 3418 Drink in History**

3 credit(s); Meets CLE req of Historical Perspectives

**Instructor:** Pilcher, Jeffrey Michael

**Description:** This class examines the significance of alcohol and other stimulating beverages in world history. All societies celebrate, and most do so with alcohol, yet its abuse has led to widespread health and social problems. We will begin with the discovery of fermentation in the ancient world, and move forward through time, examining societies around the globe. We will study social hierarchies, cross-cultural encounters, and the construction and transgression of gender roles through drinking behaviors. Perspectives from anthropology, medicine, and sociology will complement the historical concern with
change over time. Particular focus will be given to prohibition regimes throughout history. Exams will be essay in nature. Out-of-class essays will examine drink and society through the examination of primary sources and ethnographic analysis.

**Style:** 80% Lecture, 20% Discussion.
**Grading:** 40% mid exam, 60% reports/papers.
**Exam Format:** essay

**Hist 3424 Women and Gender in Latin American History**
3 credit(s); Credit will not be granted if credit has been received for: GWSS 3413; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Chambers, Sarah C
Description: The history of women in Latin America offers many surprises. In 1620, when swashbuckling soldier Francisco de Loyola was arrested in Peru, s/he came out as Catalina de Erauso, a runaway from a Spanish convent. Almost 300 years later, Angel/a Jimenez similarly donned men's clothing to fight in the Mexican revolution. Other Latin American women embraced their identity as mothers, but then took to the streets to protest military dictatorships. This course examines changing gender norms in Latin America, from Aztec times to the present, as compared to the lives of real women and men of diverse classes and ethnic groups: nuns and witches, slaves and factory workers, feminists and socialists. In addition to historical articles, we will read literature, memoirs, and first-person testimonials. This course fulfills the historical perspectives and global perspectives requirements.

**Style:** 60% Lecture, 10% Film/Video, 30% Discussion.
**Grading:** 15% mid exam, 20% final exam, 40% reports/papers, 5% quizzes, 20% class participation.

**Hist 3429 Latin American History in Film and Text**
3 credit(s); Credit will not be granted if credit has been received for: LAS 3429; Meets CLE req of Arts/Humanities; meets CLE req of Global Perspectives
Instructor: Chambers, Sarah C
Description: In the past few decades, there has been a creative explosion of films and documentaries representing women in Latin America, past and present. This course invites you to reflect critically upon those cinematic representations by placing them in the context of other historical and fictional narratives. For example, what can we learn about both the 17th and 20th centuries—by comparing the film "I, the Worst of All" (Dir. Maria Luisa Bemberg, 1990) with: Octavio Paz's biography of the 17th-century Mexican nun upon which the film is based, the writings of Sor Juana herself, and the analysis of her work by literary critics? We will compare two film versions of the life of Mexican artist Frida Kahlo: the recent movie starring Salma Hayeck and a Mexican film directed by Paul LeDuc in 1984. In addition to several other feature films, we will also explore the roles of women as directors and actors in the Latin American and Hollywood film industries. This course has been approved for the arts/humanities core and global perspectives theme requirements.

**Style:** 20% Lecture, 30% Discussion. viewing films
**Grading:** 40% reports/papers, 20% class participation, 40% other evaluation. written reactions to films and readings

**Hist 3455 West African History: 1800 to Present**
3 credit(s); Credit will not be granted if credit has been received for: AFRO 3002; Meets CLE req of Global Perspectives
Instructor: Coifman, Victoria Bomba
Description: Student may contact the instructor or department for information.

**Hist 3462 From Subjects to Citizens: The History of East Asia From 1500 to the Present**
3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: EAS 3462; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Waltner, Ann Beth
Description: This course examines the history of East Asia from 1600 to the present. It examines the individual histories of countries in the region (China, Japan, Korea and Vietnam) as well as their connections with one another and their roles in an increasingly interconnected world. Questions of national, regional, local, and personal identity will be examined in lecture, and through discussion of readings and objects of material culture. As the title of the course implies, the course will be interested in the changing political scenarios and the different ways in which individuals are located in those political scenarios. As the semester progresses the subject matter of the course will become more thematically integrated. The class will discuss topics raised in the readings such as gender, ethnicity, religion, nationalism and so on. In addition we will make use of the abundant resources at the Minneapolis Institute of Arts, the James Ford Bell Library, and the Weisman Art Museum to explore aspects of the material culture of East Asia during this period. There will be two lectures and one discussion section per week. Students will be required to post questions and comments on the reading on the course moodle site regularly. There will be a take-home midterm and a final short paper (5-7 pages) on one of the memoirs we read in class.

**Style:** 60% Lecture, 35% Discussion, 5% Field Trips.
**Grading:** 25% mid exam, 25% reports/papers, 10% attendance, 15% class participation.
**Exam Format:** Midterm exam will be a take home exam.
Hist 3462H Honors: From Subjects to Citizens: The History of East Asia from 1500 to the Present
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 3462; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives  
Instructor: Waltner, Ann Beth
Description: This course examines the history of East Asia from 1600 to the present. It examines the individual histories of countries in the region (China, Japan, Korea and Vietnam) as well as their connections with one another and their roles in an increasingly interconnected world. Questions of national, regional, local, and personal identity will be examined in lecture, and through discussion of readings and objects of material culture. As the title of the course implies, the course will be interested in the changing political scenarios and the different ways in which individuals are located in those political scenarios. As the semester progresses the subject matter of the course will become more thematically integrated. The class will discuss topics raised in the readings such as gender, ethnicity, religion, nationalism and so on. In addition we will make use of the abundant resources at the Minneapolis Institute of Arts, the James Ford Bell Library, and the Weisman Art Museum to explore aspects of the material culture of East Asia during this period. There will be two lectures and one discussion section per week. Students will be required to post questions and comments on the reading on the course moodle site regularly. There will be a take-home midterm and a final short paper (5-7 pages) on one of the memoirs we read in class.
Style: 60% Lecture, 35% Discussion, 5% Field Trips.
Grading: 25% mid exam, 25% reports/papers, 10% attendance, 15% class participation.
Exam Format: Midterm exam will be a take home exam.

Hist 3469 History of Women and Family in China, 1600-2000
3 credit(s); Credit will not be granted if credit has been received for: GWSS 3469;  
Instructor: Wang, Liping
Description: This course offers an in depth examination of women and family life in China from 1600 to the present. It begins by exploring major issues in traditional Chinese society: marriage and family life, foot binding, and the cult of female chastity. Then we will study women’s role and changes of family life in successive political and social revolutions of the 20th century. The last part of the course will be devoted to examine gender relations in China since the country was opened to market economy and international trade. We will look at the effect of ideologies (Confucianism, nationalism, and socialism) on women and family, and also differences between ideology and social practice. Reading assignments will include scholarly works, biographies, and novels. Films and other visual materials will be used to compliment lectures and class discussion.

Hist 3477 Samurai, Geisha, and How They Became Japanese
A-F only, 3 credit(s);  
Instructor: Mizuno, Hiromi
Description: This course traces how Samurai and Geisha came to be considered the quintessential Japanese tradition through Western Orientalism, Japanese nationalism, international politics, and cultural globalization. You will be learning not only about Samurai and Geisha, but also about Japan’s modernization and its political, intellectual, and cultural transformation. We’ll examine films (both Japanese and American), autobiographies of samurai and geisha, novels, and scholarly works.
Style: 30% Lecture, 30% Film/Video, 30% Discussion, 10% Small Group Activities.
Grading: 50% reports/papers, 10% quizzes, 20% written homework, 20% journal. Attendance and class participation is mandatory.

Hist 3478 Tigers and Dragons: The Rise of the East Asian Economies, 1930-2012
3 credit(s); Credit will not be granted if credit has been received for: GLOS 3278;  
Instructor: Isett, Christopher Mills
Description: With a third of global Gross Domestic Production, and the world's fastest growing economies, East Asia is arguable the most vital economic region today. In the 1950s, internal transformations set the economies of this region on a new path. Turning on state guidance, they abandoned import substitution and sought to move up the manufacturing chain through export-led development. The results were historically unprecedented rates of growth. This course examines how this was achieved and what it means for us today. We look to social and political actions to understand these economic outcomes. We look at Japan from the 1930s on; South Korea and Taiwan from their time as Japanese colonies to the present; and we look at China since 1978. Topics covered will include the legacy of colonial past, problems of late development, post-war development strategies, statism, the rise of finance, the emergence of regional manufacturing networks, regional labor markets, import substitution, export-led growth, political economy of the NICs. We will also examine framing global developments and shocks from Bretton-Woods to the 1973 oil shock, to Plaza Accord (1985) and Reverse Plaza (1995), to the 1997 Asia financial crisis and the 2008 financial meltdown.

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
**Hist 3486 Hmong Refugees from the Secret War: Becoming Americans**

3 credit(s); Credit will not be granted if credit has been received for: AAS 3486;  
Instructor: Lee, Mai Na M.  
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: Modern era from 1800. French conquest, bureaucratic, social, and economic changes. Vietnamese nationalism and adoption of communist ideologies. First Indochina War (1945-54) with France. Second Indochina War (1955-75) with US. US efforts to contain the spread of communism during Cold War paranoia. US intervention in the neighboring countries of Laos and Cambodia. Grading: Two midterms (30%), Discussions/Class Activities/Quizes (15%), 2 Movie Responses (15%), Research essay (20%), Final (20%).

**Hist 3489 20th Century India**

A-F only, 3 credit(s); Credit will not be granted if credit has been received for: GLOS 3969;  
Instructor: Skaria, Ajay  
Description: At the beginning of the 20th century, India was a British colony; now, in the second decade of the 21st, it is widely regarded a rising economic and political power. This has been a tumultuous period, marked amongst other things by: the largest and most powerful nonviolent movement anywhere in the world, which under the leadership of Gandhi led to India's independence; the bloody partition of the subcontinent into India and Pakistan; the consolidation of a parliamentary system that has seen India emerge as the world's largest democracy; transformations of caste that, while they have not dislodged the upper castes, have seen the increasing assertion of power by the lower castes, especially the former untouchables; the emergence of new forms of Hindu and Muslim identity, and relatedly the increasing power of the BJP, the Hindu nationalist party; the rise of India as an economic power is likely to see it soon become the seventh richest nation in terms of private wealth, even as close to a quarter of the population continues to suffer from severe poverty. This course will track the processes that have led to the making of contemporary India by paying special attention to 20th century Indian civic life and nationalism. Specifically, it will explore how Indian national and political identities have been constantly roiled by the mobilizations of both marginal groups (lower castes, women, peasants, and Muslims) seeking equality, and how the Indian state, Indian nationalism and even everyday life has been shaped by these mobilizations. Throughout, the course will stress the broader implications of these social processes?the way that these processes illuminate the workings of civic life and national identities not just in India, but elsewhere too. Through the course, students will hopefully become familiar with various debates and issues in contemporary India. We will start every class with a 10-15 minute discussion session devoted to student reports on and analysis of Indian websites devoted to contemporary politics, society, economics and culture. (You will be expected to spend some time before every class visiting one or more from the list of websites I will provide) The rest of the class will be devoted to discussion and lecture of assigned readings, which will include the writings both of those actively involved in the social transformations being studies, and the writings of scholars and intellectuals now reflecting on these changes.  
Style: 50% Lecture, 50% Discussion.  
Grading: 40% reports/papers, 40% journal, 20% class participation. Evaluation will be on the basis of three components: daily journal responses (40%), final essay length paper of approx. 2500-3000 words (40%); and class participation (20%).  
Exam Format: essay

**Hist 3493 Islam: Religion and Culture**

3 credit(s); Soph or jr or sr Credit will not be granted if credit has been received for: ARAB 3036;  
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 views. 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 (sayings and actions of the prophet) and the Sira (biography). 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. I will ask you to view two films on your own and 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 3504 The Cultures of the Silk Road
3 credit(s); Credit will not be granted if credit has been received for: ALL 3872;
Instructor: Bashiri,Iraj
Description: The culture of the Silk Road flourished after the invasion of Alexander. The Road served as a hub of activity between the time of the Sassanids and the Mongols. Its activity came to a halt after the discovery of the sea routes. After the fall of the Soviet Union, not only the markets but also the intellectual legacy that was associated with them, have come to life in Central Asia. The course covers both the past and the present aspects of the Silk Road. Student Learning Outcomes: 1. Learning about the cultures of medieval and present-day Central Asia, Afghanistan, and Iran 2. Ability to interpret diverse ideological trends and accept them for what they are 3. Distinguish different economical, political, and cultural trends 4. Examine the roots of conflict leading to amity and cooperation versus to animosity and war 5. Appreciate the contributions of Central Asian, Afghan, and Iranian peoples to world civilization.
Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Student Presentation.
Grading: 12% final exam, 45% reports/papers, 24% quizzes, 3% attendance, 10% in-class presentation, 6% class participation.
Exam Format: essay--Students are given a study guide before each exam with the major topics discussed from which exam questions are taken.

Hist 3506 Modern Iran: Nationalism, Religion, and the Struggle to Create Modern Iran
3 credit(s); Credit will not be granted if credit has been received for: RELS 3713;
Instructor: Bashiri,Iraj
Description: "Modern Iran" covers Iranian history from the fall of the Sassanids (7th c. CE) to the present. Part 1 discusses the coexistence of Islam and Iranian culture culminating in the adoption of Shi'ism as the official religion of Iran (16th c. CE). Part 2 examines the role of the Safavids, Qajars, and Pahlavis in the modernization and westernization of Iran. Part 3 examines the impact of the 1979 Islamic Revolution on Iranian society. Student Learning Outcomes: 1. Acquaint students with the history and culture of modern Iran. 2. Examine the impact of Zoroastrianism on Islam. 3. Examine the impact of modernization/westernization on Iranian culture. 4. Discuss Iranians' reaction to westernization: the 1979 Islamic Revolution.
Style: 50% Lecture, 20% Film/Video, 10% Discussion, 20% Student Presentation.
Grading: 15% final exam, 40% reports/papers, 22% quizzes, 3% attendance, 15% in-class presentation, 5% class participation. Attendance is tracked by signing a sheet
Exam Format: essay format

Hist 3512 History of Modern Israel/Palestine: Society, Culture, and Politics
3 credit(s); Credit will not be granted if credit has been received for: JWST 3512; Meets CLE req of Global Perspectives
Instructor: Schroeter,Daniel J
Description: Beginning with a survey of Palestine in the nineteenth century, this course examines the origins of Zionism and Arab Nationalism, Arab-Jewish conflict in Palestine, the development of Jewish and Arab national cultures in the British Mandate, the formation of the Israeli nation after 1948, the Arab-Israeli wars, and the development of the Palestinian movement. Particular attention will be paid to the diversity of Israeli and Palestinian society and culture, and the relations between the diverse communities in Israel/Palestine in the 20th century. As one of the most controversial subjects of the modern world, students will confront many contested accounts and interpretations of history that often serve the political aims of one of the many sides in the Israeli-Palestinian conflict. Yet in understanding these opposing viewpoints and competing versions of history, students will be better equipped to analyze why the conflict in Israel/Palestine has remained so difficult to resolve.
Style: 70% Lecture, 15% Discussion, 15% Small Group Activities.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% class participation.

Hist 3547 Ottoman Empire
3 credit(s); Credit will not be granted if credit has been received for: ARAB 3547; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Casale,Giancarlo
Description: A survey of Islam's most successful empire, from its founding circa 1300 to its demise in 1923. Sultans, Janissaries, Sufis, and Defa-mute Midget Stranglers - they're all here. Organized as a lecture course with weekly readings (both articles and primary sources, roughly 50-80 pages per week). Final grade based on a combination of class participation, in-class mid term and final exams, and final paper (5-7 pages). For history majors, course will fulfill the pre-1750 requirement.
Hist 3611 Medieval Cities of Europe: 500-1500
3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
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, student commentary on in-class films, 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 3615W Women in European History: 1500 to the Present
3 credit(s); Credit will not be granted if credit has been received for: GWSS 3615W; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: Maynes, Mary Jo
Description: History 3615w is designed to introduce students to the history of women and gender relations in Europe from 1500 to the present. We will examine this history in the context of the family, in law and politics, and in the economy, as well as in cultural, religious and intellectual realms. These various dimensions of women's lives are explored across eight chronologically ordered units of 1 or 2 weeks each: 1.) early modern patriarchy; 2.) women and gender in Enlightenment and Revolutionary Europe; 3.) women, nation, and empire; 4.) First-Wave? feminism and the New Woman; 5.) gender, war and fascism; 6.) the postwar restoration and the rebellions of the 1960s; 7.) women in socialist and post-socialist Europe; 8.) European women in a changing world. Emphasis will be on historical transformation and the variety (along the lines of class, region, religion, etc.) of women?s experiences. We will be reading many primary documents as well as historians? analyses. The documents will be drawn from a wide range of genres, much of it writing by women, for example: letters, treatises, fiction, memoirs, and speeches. The course will also provide opportunities to think about how usual narratives of European history have to be revised once serious attention is paid to women and gender relations. Including women in European history calls into question how we understand the Reformation and Luther?s attacks on clerical celibacy, for example, or the usual characterizations of periods such as ?the Enlightenment.? It makes us rethink things often taken for granted in modern European political culture (such as the practice of using women figures like Marianne to represent nations) and to notice how much of the appeal of early fascism was because of its hostility to first-wave feminism. It also calls attention to how challenges to the political or religious order are often bound up with challenges to the gender order. One recurrent theme will be how gender relations affect the options and choices that women (and men) make, how these options are understood and change over time, and how women can be understood as active forces in history. The realm of operation of women?s historical agency that we will consider is quite wide and includes not only directly political activities such as food riots or participation in suffrage groups, but also historically important ?private? decisions about marriage, sexuality, childbearing etc. In other words, the course in not just about adding new historical information about the European past. It is also about questioning that history, and questioning the usual ways of thinking about and doing history, from a gendered perspective.
Style: 35% Lecture, 15% Film/Video, 25% Discussion, 20% Small Group Activities, 5% Web Based.
Grading: 10% mid exam, 15% final exam, 25% reports/papers, 10% special projects, 15% quizzes, 10% attendance, 15% class participation.

Hist 3618 The Dark Ages Illumined: Medieval Europe to 1050
3 credit(s);
Instructor: STAFF
Description: The year 476 AD supposedly heralded the death of 'Roman Civilization' and all that was good in the West, ushering in centuries of political fragmentation, rudimentary socioeconomic structures (mud huts), religious superstition, and general barbarianism—the so-called "Dark Ages." Such is said to have been the fate of Europe until its miraculous rebirth and global expansion in later medieval period. This class serves as a corrective for such a narrative. Beginning in the third century, we will investigate how Rome did not so much fall as it transformed into a dynamic series of kingdoms which eventually formed the basis for the modern states of Europe. Topics include the barbarian/Germanic migrations, the conversion of Europe to Latin Christianity, the Mediterranean trade networks and their connections with the transcontinental Silk Trade, the Carolingian renaissance, the Viking invasions, and the "feudal anarchy" of post-Carolingian Europe. We will end with an overview of the Norman conquest of England, the First Crusade, and the church-state conflict of the later eleventh century. This class also features a significant comparative focus; medieval Europe did not exist within a geographic bubble. As such, we will investigate the rise of the Islamic caliphates and the continuing existence of the Eastern Roman (Byzantine) Empire as models and pressures which challenged the development of early medieval Europe.
Throughout the class, we will also take note of how contemporary concerns have informed and often misinformed the study of history during the modern era, sometimes for explicit propagandistic purposes. Finally, weekly discussions will revolve around primary source readings and visual materials which will form the basis of your papers for the course.

**Style:** 66% Lecture, 33% Discussion.

**Grading:** 15% mid exam, 25% final exam, 40% reports/papers, 20% class participation.

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

### Hist 3632 History of Germany; Reformation to Unification: 1500-1871
- **3 credit(s);**
- **Instructor:** Maynes, Mary Jo
- **Description:** This course is a course for upper-division undergraduates in any major. Topics include: the German Reformation; warfare and demographic catastrophe of the early 1600s; everyday life in town and country; absolutism and statebuilding in Central Europe; Baroque culture and court life; family life and its transformation; social and economic crisis; the Revolution of 1848; the path to unification. Each week the class time will involve a range of activities including lectures, discussions, and in-class individual and group work based on the assigned readings. Writing-intensive option: With the permission of the instructor, a student may add a one-credit independent study (HIST 3980W Supplemental Writing in History) in order to make the course writing intensive. The student would be expected to write a substantial research paper (15-25 pages) related to course themes and based on historians’ work and primary documents.
- **Style:** 60% Lecture, 20% Discussion, in-class exercises and small group work
- **Grading:** 15% mid exam, 20% final exam, 25% reports/papers, 10% quizzes, 25% class participation, 5% problem solving.
- **Exam Format:** essay and short answer

### Hist 3704W Daily Life in Europe: 1300-1800
- **3 credit(s);** Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
- **Instructor:** Mason, Austin Prosser Johnson
- **Description:** Student may contact the instructor or department for information.

### 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: GLOS 3605
- **Instructor:** Wolfe, Thomas C
- **Description:** This course is an examination of what we take completely for granted today: a world of print, books, and readers. The course will examine the rise of alphabetic writing, the place of writing in medieval societies; the rise of printed material in the 15th century, and the spread and domination of print in the world of the mass press of the 18th and 19th centuries. We will conclude the course with a consideration of what it means to read in the conditions of computers, hypertext, and the internet in the present. Please contact the instructors for further information. Taught by Tom Wolfe and JB Shank.
- **Style:** 25% Lecture, 75% Discussion.
- **Grading:** 50% reports/papers, 25% in-class presentation, 25% class participation.

### Hist 3767 Eastern Orthodoxy: History and Culture
- **3 credit(s);** Credit will not be granted if credit has been received for: RELS 3611
- **Instructor:** Stavrou, Theofanis G
- **Description:** Student may contact the instructor or department for information.

### Hist 3803 Radicalism in Early America
- **A-F only, 3 credit(s);**
- **Instructor:** Fischer, Kirsten
- **Description:** From the revolutionary era to the Civil War, American radicals sought to effect far-reaching change in individuals and in society. How much did they change the course of history? We will focus on four strands of American radicalism: 1) revolutionary visionaries like Thomas Paine who hoped American independence would bring about a new world order based on social and economic justice, 2) women's right advocates who dared to challenge entrenched patriarchal norms and laws, 3) radical abolitionists who used both peaceful and violent means to overthrow slavery, 4) utopianist reformers and prophets of various kinds who believed a thorough transformation was at hand. We will explore various kinds of radicalism and their social impact in the century after 1760. We will especially examine what roles religion and violence played in efforts to achieve dramatic social change.
- **Style:** 20% Lecture, 70% Discussion, 10% Small Group Activities.
- **Grading:** 75% reports/papers, 5% attendance, 20% class participation.

### Hist 3804 Religion and the U.S. Founding: Contests Then and Now over the Place of Religion in Politics
- **3 credit(s);** Credit will not be granted if credit has been received for: RELS 3623; Meets CLE req of Historical Perspectives
Hist 3865 African American History, 1865 to Present
3 credit(s);
Instructor: Mathieu,Saje M
Description: This course explores African American history from Emancipation to the present. It analyzes the social, political, legal, and cultural dimensions of the African American experience in the United States throughout critical historical moments such as Reconstruction, industrialization, segregation, suffrage, the Great Migrations, World War One, the Great Depression, and World War Two. We will explore the experiences of African Americans from the perspectives of various subgroups such as women, workers, and the LGBTQ+ community. The course also includes an examination of the civil rights movement and the struggle for equality in the face of systemic racism. The final exam is a take-home exam.

Hist 3812 The Civil War and Reconstruction
3 credit(s);
Instructor: Hacker,J. David
Description: This course explores the origins, nature, and consequences of the American Civil War. We begin with the causes of the deepening sectional crisis and discuss the political, economic, and social reasons for Southern secession. We then turn to an examination of the war itself, exploring the reasons men fought, the move toward emancipation as a Northern war aim, the reasons for Confederate defeat, and the short- and long-term impact of the war on women and men. We conclude with an examination of the experience of Reconstruction in the South and the war?&apos;s legacy in modern America.
Grading: 25% mid exam, 25% final exam, 30% written homework, 10% attendance, 10% class participation.

Hist 3822 United States in the 20th Century Since 1945
3 credit(s);
Instructor: Roberts,Evan
Description: HIST3822 explores the history of the United States since the end of World War II. For many students, this is a history that your grandparents, parents, and then you lived through parts of. The course gives you an opportunity to discover the social, economic, and cultural changes that took place in the United States over the last 70 years. Specific topics covered include presidential politics; foreign policy and conflict with other nations; the changing role of women; debates about crime, smoking, public health and health insurance, abortion, civil rights, and American society; economic and demographic change including the growth of cities and suburbs, economic inequality, regulation and deregulation of the economy, the baby boom and changes in family life. The structure of the course is designed to give you an opportunity to uncover, explore and question significant changes in American society using digitized primary sources, with an emphasis on surveys of ordinary Americans. To that end, we are working in the computer lab on Thursdays for the entire semester. I will introduce you to software and information sources that you will work with to uncover change. You will work in groups to explore how ordinary people?&apos;s lives changed over time. As you develop your skills at using the software and data sources, the class will take increasing charge of the narrative of the course, and the questions that we address in lecture, and you will be called on to share your findings with the rest of the class. In the following week?&apos;s Tuesday lecture I will give you further background on the big picture of important changes and continuities in American life that you have investigated. I will make an effort to include as many of your questions and other contributions in Tuesday?&apos;s lectures as possible (keeping in mind that the lecture also needs to be somewhat coherent). Throughout the class you will be reading a book on the history of America after World War II, Joshua Freeman, American Empire, 1945-2000. To motivate your reading, you will work in small groups to develop short weekly quizzes on the contents of the book. Quizzes will be given throughout the course, and contribute to your grade. You will have the opportunity to delve further into the cultural and social history of post- World War II America in two assignments based on significant books about or from the era. The class activities, and graded written work, in the course are designed to provide you with opportunities to 1. Learn about important changes in American life since 1945. 2. Think critically about, and discuss with your peers, the development of American society since 1945 giving you a more informed historical background to current events. 3. Develop skills in writing essays. 4. Develop your skills in using quantitative information from surveys, censuses and other sources.
Style: 40% Lecture, 10% Discussion, 40% Laboratory, 5% Small Group Activities, 5% Student Presentation. Tuesdays are in a regular lecture theater; Thursdays in a computer lab. In both settings there will be time for student discussion and informal presentations.
Grading: 60% reports/papers, 30% quizzes, 10% written homework.

Hist 3855 African American History, 1865 to Present
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: AFRO 3865;
Instructor: Roberts,Evan
Description: This Historical Perspectives course explores how leading political figures wrote about religion during and after the framing of the U.S. Constitution. Some see these men as devout Christians intent on establishing a Christian Nation, while others view them as secularists focused on separating church and state. All sides use direct quotes to make their case. Who is right? This Historical Perspectives course explores how leading political figures wrote about religion during and after the framing of the U.S. Constitution. The course also investigates competing religious currents in the early Republic, the rise of the Religious Right in the 20th century, and debates in the late-18th century and today over the proper role of religion in American politics. The course will make an effort to include as many of your questions and other contributions in Tuesday?&apos;s lectures as possible (keeping in mind that the lecture also needs to be somewhat coherent). Throughout the class you will be reading a book on the history of America after World War II, Joshua Freeman, American Empire, 1945-2000. To motivate your reading, you will work in small groups to develop short weekly quizzes on the contents of the book. Quizzes will be given throughout the course, and contribute to your grade. You will have the opportunity to delve further into the cultural and social history of post- World War II America in two assignments based on significant books about or from the era. The class activities, and graded written work, in the course are designed to provide you with opportunities to 1. Learn about important changes in American life since 1945. 2. Think critically about, and discuss with your peers, the development of American society since 1945 giving you a more informed historical background to current events. 3. Develop skills in writing essays. 4. Develop your skills in using quantitative information from surveys, censuses and other sources.
Style: 40% Lecture, 10% Discussion, 40% Laboratory, 5% Small Group Activities, 5% Student Presentation. Tuesdays are in a regular lecture theater; Thursdays in a computer lab. In both settings there will be time for student discussion and informal presentations.
Grading: 60% reports/papers, 30% quizzes, 10% written homework.
Hist 3868W Race, War, and Race Wars in American History
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: AFRO 3868W; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Lindquist, Malinda A
Description: Race and war are powerful engines of change and both have fundamentally shaped how Americans think about themselves, their nation, and citizenship. From the Indian Wars, Mexican American Wars and Civil Wars to the World Wars, Cold Wars, Vietnam Wars, and the recent Iraq Wars, this course examines the complicated nexus between race and war. Examining these conflicts from the military's, the citizen-soldiers', racial minorities', and war hawks' and doves' perspectives, will allow students to unravel the relationships between war, democracy, patriotism, exclusion, violence, rhetoric, masculinity, and citizenship. Wars have transformed our racial and social landscapes, however, the gendered and classed nature of wartime experiences and military discourse will also receive considerable attention. All wars, however, are not waged by standing militaries. Racial violence, riots, and lynchings, that is, the race wars waged in rural, urban, and suburban America are also explored. The theme of war also invites a consideration of how the rhetoric of war (i.e. the War on Poverty, the Drug War, the Border or Immigration Wars, and War on Terror) has figured into racial politics and policy making. At the conclusion of this course, students will be familiar with how wars (foreign, domestic, and rhetorical) have transformed the racial geography of the nation and how race continues to inform contemporary debates.

Hist 3872 American Indian History: 1830 to the Present
3 credit(s); Credit will not be granted if credit has been received for: AMIN 3872; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: O'Brien, Jean Maria
Description: How did American Indian nations navigate the turbulent nineteenth and twentieth centuries that brought a flood of intruders into their homelands and remake themselves into the vibrant and richly diverse peoples that they are in the present? Beginning with the turmoil surrounding Indian Removal policy in the 1830s, and extending into the present-day struggles of Indian nations to control their own destinies, this course serves as an introduction to American Indian history from 1830 to the present. Touching on such themes such as cultural resistance and and political resurgence in the face of U.S. colonialism, we will focus on the interface between the development of Federal Indian policy and American Indian resistance to U.S. initiatives as a unifying theme, and we will also consider major shifts in the nature of American Indian sovereignty into the present. This course stresses the integrity and adaptability of American Indian societies, and the centrality of ever-emergent American Indian identity to the experiences of Indian people. Particular topics include: Indian Removal and the concept of Indian Territory; Sovereignty: What does it mean? Encounters, east and west; Reservation Life; Pan-Indianism; John Collier and the Indian New Deal; the Indian Claims Commission; Termination and Relocation; Self-Determination and Indian Activism. Readings are designed to complement course session, and include documents, a monograph, a novel, and compiled oral histories of Indian peoples.
Style: 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.
Grading: 40% mid exam, 40% reports/papers, 10% quizzes, 10% class participation.
Exam Format: Essay

Hist 3877 Asian American History, 1850-Present
3 credit(s); Credit will not be granted if credit has been received for: AAS 3877; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Lee, Erika
Description: Asian immigrants began to arrive in the United States in the mid 19th century. Today, about half of the people immigrating today are from Asia. This course is a broad and comparative survey of Asian Americans (Chinese, Japanese, Korean, Filipino, South Asian, and southeast Asian Americans, particularly Hmong and Vietnamese) from 1850 to the present. Topics include: immigration, anti-Asian discrimination and exclusion, labor, women, family, and communities, World War II and Asian America, including the internment of Japanese Americans, &quot;new&quot; immigration from Asia after 1965, war in Southeast Asia and refugee migration and communities in the U.S., the Asian American movement and the struggle for equality, and contemporary issues related to Asian Americans. This course is open to undergraduate majors and non-majors. Reading assignments will include texts, articles, and autobiographies. We will view films and use the internet to compliment lectures and class discussions.
Style: 70% Lecture, 30% Discussion.
Grading: 25% mid exam, 35% final exam, 20% reports/papers, 20% class participation.
Exam Format: Essay

Hist 3960 Topics in History: A History of Western Feminisms
3 credit(s), max credits 16, 5 completions allowed;
Instructor: Giusti, Jessica
Description: This course has long been titled, "Rebels, Radicals and Revolutionaries: The History of Western Feminism," but in this class we will attempt to disrupt and deconstruct this title as an object of debate and center our discussion around critiquing what this title implies. Rather than assuming that there is such as thing as the "history of western feminism," which tells the tale of rebels, radicals and revolutionaries who progress through feminism's various waves, this course raises the question as to who benefits from such a narrative, who is excluded, and why. In other words, we will deconstruct not only the wave narrative and the whiteness of western feminism, but we will also attempt to deconstruct the project of history itself. Further, this course will critically examine the many ways in which marginalized women and groups have been excluded (or exploitatively included) in contemporary western history and engage the voices, histories, and actions of feminists from across a wide breadth of identities and social locations. We will read for and across "difference" in order to disrupt the notion of western feminism as a monolith and to further illuminate the less renowned, but undoubtedly extraordinary, feminists and feminisms we encounter creating change on a daily basis. This course will be discussion-based and will rely heavily on close readings, rich conversation, and a collaborative environment to discuss a variety of exciting texts.
Style: 20% Lecture, 10% Film/Video, 35% Discussion, 20% Small Group Activities, 15% Student Presentation.

Hist 3960 Topics in History: North Africa since 1500: Islam and Colonialism
3 credit(s), max credits 16, 5 completions allowed;
Instructor: Schroeter, Daniel J
Description: This course examines the history of the Maghrib (Morocco, Algeria, Tunisia, Libya, and the disputed territories of the Western Sahara), from the time of Ottoman expansion and the Moroccan dynasties (Sa’dian and ’Alawid) in the 16th and 17th centuries to the end of the 20th century. The Maghrib was at the crossroads of the Mediterranean, Middle Eastern and Sub-Saharan African worlds. We focus on the encounter of Islamic cultures and societies of the Maghrib with Africa and Europe, European colonial rule in the 19th and 20th centuries, nationalism, revolution, and independence in the post-colonial period in the latter half of the 20th century. We conclude with an examination of the challenges facing Morocco, Algeria, Tunisia, and Libya in recent decades?Issues that have come to the forefront of debates about the ?Arab Spring?: economic development, women's rights and equality, authoritarianism and democracy, political Islam, and the struggle for Amazigh (Berber) culture and identity.
Style: 70% Lecture, 15% Discussion, 15% Small Group Activities.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% class participation.

Hist 3980W Supplemental Writing in History
1 credit(s), max credits 4, 4 completions allowed; Meets CLE req of Writing Intensive
Instructor: STAFF
Description: With the permission of the instructor of a history course, a student may add this one-credit independent study in order to make the course writing intensive. The student would then be expected to do additional written work, including the revision of at least one paper.

Hist 3990 Historical Internship
1-4 credit(s), max credits 8;
Instructor: Hoogland, Tim
Description: Student may contact the instructor or department for information.

Hist 4961V Honors: Major Paper
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Fischer, Kirsten
Description: Student may contact the instructor or department for information.

Hist 4961V Honors: Major Paper
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Cohen, Gary B.
Description: Student may contact the instructor or department for information.

Hist 4961V Honors: Major Paper
A-F only, 4 credit(s); 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); Meets CLE req of Writing Intensive
Instructor: Fischer, Kirsten
Description: Student may contact the instructor or department for information.
Hist 4961W Major Paper  
A-F only, 4 credit(s); Meets CLE req of Writing Intensive  
**Instructor:** Cohen, Gary B.  
**Description:** Student may contact the instructor or department for information.

Hist 4961W Major Paper  
A-F only, 4 credit(s); Meets CLE req of Writing Intensive  
**Instructor:** Mathieu, Saje M  
**Description:** Student may contact the instructor or department for information.

Hist 4970 Historical Internship  
1-12 credit(s), max credits 24;  
**Instructor:** Hoogland, Tim  
**Description:** Student may contact the instructor or department for information.

Hist 5011 Measuring the Past: Quantitative Methods for Historical Research  
4 credit(s); Primarily for 1st-yr grad students  
**Credit will not be granted if credit has been received for:** HIST 3011;  
**Instructor:** Ruggles, Steven  
**Description:** The purpose of this course is to equip students with the skills and confidence to count things creatively. It will introduce the methods used by economic and demographic historians to answer questions about the past with quantitative data. In addition to statistical methods and data management, we will cover research design and measurement issues. By the end of the course, you should be able to: * Develop testable research questions * Design an analysis that will answer your questions * Apply appropriate measurement strategies and statistical techniques * Critically read and understand quantitative historical research The course meets the Liberal Education Mathematical Thinking requirement, which means that it goes beyond rote computational skills. Students will gain broad understanding of mathematical thinking and quantitative analysis as a body of knowledge. In addition, students will learn specific analytic tools that have broad application for understanding the quantitative dimensions of historical change. The course emphasizes the logic of quantitative measurement rather than cookbook recipes for statistical analysis. Students will be expected to manipulate equations both to understand the probabilistic basis of statistical analysis and to apply demographic and economic methods to historical data. We will focus on four general areas: 1. Methods and statistics We will move quickly through elementary statistics (percentages, means, basic probability and tests of statistical significance, bivariate regression and correlation) and then turn to more advanced topics of special significance for historians (e.g., sample designs, family reconstitution, multiple standardization and demographic decomposition, indexes, measures of inequality). 2. Data management, software, and computers We will focus on the use of SPSS for Windows and Microsoft Excel. We will also briefly cover several other programs for quantitative analysis. The topics covered will include design of data collections, data entry, analysis of microdata, management of hierarchical data, making graphs, mapping, and techniques of aggregate data analysis. 3. Principles of measurement and presentation of quantitative information These often-neglected topics are the heart of the course. They include the principles and philosophy of measurement, research designs and data sources, and aesthetic considerations in the presentation of quantitative findings. Choosing what to measure and how to measure it is a vital skill, and the most advanced statistics in the world won't help you if you haven't got it right. In fact, very often clever measurement strategies can actually save you from having to use fancy statistics. Presentation is also critically important, especially for historians because our audience is often innumerate. Measurement and presentation issues will permeate all aspects of the course, and will be the sole focus of several classes.  
**Style:** 20% Lecture, 20% Discussion, 20% Laboratory, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.  
**Grading:** 40% special projects, 15% quizzes, 15% written homework, 10% attendance, 10% in-class presentation, 10% class participation. The special project is a group poster project with original research (individual project for graduate students).

Hist 5051 Before Herodotus: History and Historiography of Mesopotamia and the Ancient Near East  
A-F only, 3 credit(s); Prev coursework in ancient Near Eastern history recommended  
**Credit will not be granted if credit has been received for:** CNES 5051;  
**Instructor:** von Dassow, Eva  
**Description:** Three millennia elapsed from the invention of writing in Egypt and Mesopotamia, toward 3100 BCE, until the writing of native histories of these two lands in Greek, by Manetho of Egypt and Berossos of Babylon -- both Hellenized priests working under the new Macedonian rulers who divided the legacy of Alexander the Great. During those three millennia, several genres of literature developed in Egypt, Mesopotamia, and neighboring regions, which, while not history in the Herodotean sense, purport to record, narrate, or explain the past. Such "historiographic" writings are quite diverse, for they were the products of many distinct peoples in different periods, and they were created for various purposes under diverse circumstances. This seminar focusses on sources and methods in ancient Near Eastern history. In this course, we study the histories of the various states and peoples of the ancient Near East through the lenses supplied by their own representations of the past, and at the same time we investigate how modern historians construct knowledge of the past.
using these and other sources and evidence. Secondary emphases will include the development of historical writing in biblical Israel and Judah, and the relations between ancient Near Eastern historical or historiographic literature and the works of Greek historians such as Herodotus. The class will read some of the most important primary sources for the history of the ancient Near East, in translation, and practice applying historical methods in studying these sources. In order to develop critical understanding of modern histories of the ancient Near East, as well as to explore different methods and approaches to the study of the past, students will read secondary literature which engages in discussion of theoretical issues in the study of ancient history.

Style: 40% Lecture, 45% Discussion, 10% Student Presentation, 5% Demonstration.
Grading: 30% reports/papers, 50% written homework, 5% in-class presentation, 15% class participation.

Hist 5265 20th-Century Russia: The Collapse of Imperial Russia, the Revolutions, and the Soviet Regime
3 credit(s);
Instructor: Stavrou, Theofanis G
Description: Student may contact the instructor or department for information.

Hist 5478 Tigers and Dragons: The Rise of the East Asian Economies, 1930-2012
3 credit(s);Grad student
Instructor: Isett, Christopher Mills
Description: Student may contact the instructor or department for information.

Hist 5540 Topics in Mediterranean Studies: The Mediterranean World 1598-1798
A-F only, 3 credit(s), max credits 15, 5 completions allowed;
Instructor: Matar, Nabil I
Description: The Early Modern Mediterranean World: Britain, France, and the Ottoman-Arabic Mediterranean. Nabil Matar
The course examines the crucial but understudied period between the demise of Spain (Braudel's terminus ad quem) and the beginning of the Napoleonic invasion. It focuses on France and Britain, the two superpowers that, in the course of two centuries, came to dominate the Mediterranean basin. At the same time, the course brings in dialogue Ottoman-Arabic texts. As France and Britain began to prevail both navigationally and commercially, how did the other side of the Mediterranean view the "enlightenment" about which Muslim ambassadors wrote? Emphasis will be placed on the economic, military, and possibly religious reasons that prepared for European dominance in this decisive period of transition. Primary sources (all in English/English translation) will include Arabic/Ottoman, English, and French chronicles, ambassadorial reports, literary works, and captivity accounts.

Hist 5547 Empire and Nations in the Middle East
3 credit(s);
Instructor: Hakim, Carol
Description: Student may contact the instructor or department for information.

Hist 5900 Topics in European/Medieval History: Urban Medieval History
A-F only, 3 credit(s), max credits 16, 5 completions allowed;
Instructor: Reyerson, Kathryn L
Description: Student may contact the instructor or department for information.

Hist 5960 Topics in History: Histories and Cultures of Capitalism
3 credit(s), max credits 16, 5 completions allowed;
Instructor: Deutsch, Tracey A
Description: Student may contact the instructor or department for information.

Hist 5960 Topics in History: Food, Magic, Medicine: History of Atlantic World
3 credit(s), max credits 16, 5 completions allowed;
Instructor: Gerbner, Katharine
Description: "Food, Magic, Medicine" introduces the age of exploration as an era of encounter and exchange. Rather than focusing on conquest, it asks how Native and African cultures transformed European, American and global history during the early modern era. While imperialism relied on an ideology of supremacy, both in politics and culture, colonists were often dependent on Native and African knowledge, food and expertise. Paying careful attention to the social meaning of specific foods, such as sugar and chocolate, as well as cultural practices like scientific collecting and healing, this course will interrogate the revolutions in taste, knowledge and belief that took place in the Atlantic world between 1500 and 1800. Part 1, "Taste," examines eating, drinking and smoking as socially constructed experiences that have major economic, political and religious implications. Focusing on crops rather than specific regions, it views the culture of consumption as a vital force fueling transatlantic transformations. Part 2, "Knowledge," asks how individuals made sense of the massive amount of information that circulated throughout the Atlantic World. It investigates the European culture of collecting alongside Afro-Atlantic and Native American forms of knowledge production that both challenged and contributed to the
development of a "Western canon." Part 3, "Belief," examines cultures of belief on a regional basis, using case studies to contextualize religious, political and economic movements within an Atlantic framework. Students will be asked to pair microhistorical analysis with a broad transatlantic and, at times, global framework to recognize the importance of locality in Atlantic and world history.

Hist 5962 Bell Library Research Seminar in Comparative World History, ca. 1000-1800 CE
A-F only, 3 credit(s);
Instructor: Ragnow, Marguerite
Description: The James Ford Bell Seminar in Comparative World History, ca. 1000 to 1800, provides students with an introduction to archival and rare materials research within the context of European travel and the expansion of commercial interests into the wider world in the medieval and early modern periods. The emphasis will be on preparing you for the research paper that is the major outcome of this class, while also providing experience with many of the aspects of an academic career, including writing book reviews and encyclopedia articles, intellectual discourse, art/artifact analysis, understanding early maps, and paleography and manuscript transcription with a module on the history of the book. In addition to submitting a final research paper, students will present their research in a public forum, a setting similar to presenting at an academic conference or symposium.
Style: 20% Lecture, 60% Discussion, 20% Student Presentation. A field trip may be scheduled.
Grading: 50% reports/papers, 15% written homework, 20% in-class presentation, 15% class participation.

Hist 5970 Advanced Research in Quantitative History: The Demographic Transition
A-F only, 4 credit(s), max credits 16, 4 completions allowed;
Instructor: Hacker, J. David
Description: This course focuses on the transition from high birth and death rates in the United States and Europe in the late nineteenth century to low birth and death rates in the early twentieth century. We will examine early demographic transition theory, recent criticisms, and new and classic studies of the transition and its causes. Although theories of demographic transition have not fared well, the fact remains: life expectancy nearly doubled between 1870 and 1930 while fertility fell from almost 6 children per woman to less than 3. Approximately half of the course will be dedicated to the mortality transition (and the related epidemiological and health transitions) and half dedicated to the fertility transition. Topics will include the public health movement, medicine, contraception, and abortion. A few weeks will be dedicated to comparing demographic transitions in Asia and elsewhere to those in the United States and Europe and the possibility of an on-going ?second demographic transition.?

Hist 8540 Topics in Mediterranean Studies: The Mediterranean World 1598-1798
A-F only, 3 credit(s), max credits 15, 5 completions allowed;
Instructor: Matar, Nabil I
Description: The Early Modern Mediterranean World: Britain, France, and the Ottoman-Arabic Mediterranean. Nabil Matar
The course examines the crucial but understudied period between the demise of Spain (Braudel's terminus ad quem) and the beginning of the Napoleonic invasion. It focuses on France and Britain, the two superpowers that, in the course of two centuries, came to dominate the Mediterranean basin. At the same time, the course brings in dialogue Ottoman-Arabic texts. As France and Britain began to prevail both navigationally and commercially, how did the other side of the Mediterranean view the "enlightenment" about which Muslim ambassadors wrote? Emphasis will be placed on the economic, military, and possibly religious reasons that prepared for European dominance in this decisive period of transition. Primary sources (all in English/English translation) will include Arabic/Ottoman, English, and French chronicles, ambassadorial reports, literary works, and captivity accounts.

Hist 8900 Topics in European/Medieval History: Urban Medieval History
A-F only, 3 credit(s), max credits 16, 5 completions allowed;
Instructor: Reyerson, Kathryn L
Description: Student may contact the instructor or department for information.

Hist 8960 Topics in History: Histories and Cultures of Capitalism
A-F only, 3 credit(s), max credits 16, 5 completions allowed;
Instructor: Deutsch, Tracey A
Description: Student may contact the instructor or department for information.

Hist 8960 Topics in History: Empire and Nations in the Middle East
A-F only, 3 credit(s), max credits 16, 5 completions allowed;
Instructor: Hakim, Carol
Description: Student may contact the instructor or department for information.

Hist 8960 Topics in History: Food, Magic, Medicine: History of Atlantic World
A-F only, 3 credit(s), max credits 16, 5 completions allowed;
Instructor: Gerbner, Katharine
Description: "Food, Magic, Medicine" introduces the age of exploration as an era of encounter and exchange. Rather than focusing on conquest, it asks how Native and African cultures transformed European, American and global history during the early modern era. While imperialism relied on an ideology of supremacy, both in politics and culture, colonists were often dependent on Native and African knowledge, food and expertise. Paying careful attention to the social meaning of specific foods, such as sugar and chocolate, as well as cultural practices like scientific collecting and healing, this course will interrogate the revolutions in taste, knowledge and belief that took place in the Atlantic world between 1500 and 1800. Part 1, "Taste," examines eating, drinking and smoking as socially constructed experiences that have major economic, political and religious implications. Focusing on crops rather than specific regions, it views the culture of consumption as a vital force fueling transatlantic transformations. Part 2, "Knowledge," asks how individuals made sense of the massive amount of information that circulated throughout the Atlantic World. It investigates the European culture of collecting alongside Afro-Atlantic and Native American forms of knowledge production that both challenged and contributed to the development of a "Western canon." Part 3, "Belief," examines cultures of belief on a regional basis, using case studies to contextualize religious, political and economic movements within an Atlantic framework. Students will be asked to pair microhistorical analysis with a broad transatlantic and, at times, global framework to recognize the importance of locality in Atlantic and world history.

Hist 8970 Advanced Research in Quantitative History: The Demographic Transition
A-F only, 4 credit(s), max credits 16, 4 completions allowed;
Instructor: Hacker, J. David
Description: This course focuses on the transition from high birth and death rates in the United States and Europe in the late nineteenth century to low birth and death rates in the early twentieth century. We will examine early demographic transition theory, recent criticisms, and new and classic studies of the transition and its causes. Although theories of demographic transition have not fared well, the fact remains: life expectancy nearly doubled between 1870 and 1930 while fertility fell from almost 6 children per woman to less than 3. Approximately half of the course will be dedicated to the mortality transition (and the related epidemiological and health transitions) and half dedicated to the fertility transition. Topics will include the public health movement, medicine, contraception, and abortion. A few weeks will be dedicated to comparing demographic transitions in Asia and elsewhere to those in the United States and Europe and the possibility of an on-going second demographic transition?

Hist 8990 Topics in Comparative History-Research: Comparative World History 1000-1800 CE
3 credit(s), max credits 15, 5 completions allowed;
Instructor: Ragnow, Marguerite
Description: The James Ford Bell Seminar in Comparative World History, ca. 1000 to 1800, provides students with an introduction to archival and rare materials research within the context of European travel and the expansion of commercial interests into the wider world in the medieval and early modern periods. The emphasis will be on preparing you for the research paper that is the major outcome of this class, while also providing experience with many of the aspects of an academic career, including writing book reviews and encyclopedia articles, intellectual discourse, art/artifact analysis, understanding early maps, and paleography and manuscript transcription with a module on the history of the book. In addition to submitting a final research paper, students will present their research in a public forum, a setting similar to presenting at an academic conference or symposium.
Style: 20% Lecture, 60% Discussion, 20% Student Presentation. A field trip may be scheduled.
Grading: 50% reports/papers, 15% written homework, 20% in-class presentation, 15% class participation.

History of Medicine
510 Diehl Hall (Box 506 Mayo)

HMed 3002W Health Care in History II
3 credit(s); Meets CLE req of Historical Perspectives; 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.
Human anatomy and the process of dissection has been a foundation for medical education in the West since the late Middle Ages, but its prominence in public culture became salient with the 1995 opening of Gunther von Hagens’ Body Worlds exhibit. Since then, Body Worlds has circulated globally, expanded thematically, and proliferated, not to mention various clones that regularly tour to satisfy a robust public appetite for exhibiting intimate anatomical details in artistically-imaginative poses. Not surprisingly, the sensationalism linked with such commercial marketing of very personal and private, perhaps even sacred structures has itself generated broad comment, and even moral and political censure. But neither the sacralization of the body nor its public exhibition as dissected object is new; similar display, excitement, and controversy graced the urban cultural scene in early modern European centers of medical education and found expression in numerous printed books and artistic renderings on canvas and dimensioned artifact. At the root of many of these depictions are the images of Andreas Vesalius? On the Architecture of the Human Body (1543), the striking poses and absorbing anatomical details of which both embodied his generation’s fascination with dissection in medical education and presented a model for artistic rendering of human anatomy. 2014 marks the 500th anniversary of the birth of Vesalius and the 450th anniversary of his death, which we will celebrate in HMED 5940 through collective reading and discussion of the history of human dissection and its depiction in the Vesalian tradition. We will meet once a week as a seminar, to discuss common readings, occasionally supplemented by lecture, and to contribute the results of our independent research projects for feedback and synergy. Grading will be based on participation, a research write-up of some sort, and any presentation or other artifact made of this project (such as a short paper presentation, PowerPoint presentation, artistic product, or other). There will be no examinations.

Style: 20% Lecture, 60% Discussion, 20% Student Presentation.
Grading: 40% special projects, 10% reflection paper, 10% in-class presentation, 40% class participation.
Exam Format: No exams
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

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**HSci 1714 Technology and Civilization: Stone Tools to Steam Engines**

3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HSCI 3714; Meets CLE req of Historical Perspectives; meets CLE req of Technology and Society

**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, 25% final exam, 30% reports/papers, 20% additional semester exams, 10% class participation.

1714 students will do three papers, 3-5 pages each. 3714 students will do one 12-15 page research paper, with three components.

**Exam Format:** Combination short identification and essay.

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**HSci 1715 Technology and Civilization: Waterwheels to the Web**

3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HSCI 3715; Meets CLE req of Historical Perspectives; meets CLE req of Technology and Society

**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 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.

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

**Exam Format:** Short identifications and essay

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**HSci 1815 Revolutions in Science: Lavoisier, Darwin, and Einstein**

3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HSCI 3815; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives

**Instructor:** Janssen, Michel

**Description:** This class is the second part of a two-semester introductory survey of the history of science. The two parts can be taken independently of one another. This class covers a selection of developments in physics, chemistry, biology, and geology from the 18th-20th C. We examine the reasoning of some of the leading scientists involved, while being sensitive to the broader social and cultural contexts in which they worked. We also pay attention to the ways in which we obtain knowledge in the history of science. To allow for meaningful analysis of the material, the course is clustered around a few pivotal episodes: the chemical revolution of the late-18th C., the Darwinian revolution of the 19th C and the relativity and quantum revolutions of the early-20th C. We also study the impact of these scientific developments on society. In particular, we look at the reaction of various religious groups to Darwin's theory and at the development of nuclear weapons made possible by the development of modern physics. We pay special attention to the increasingly international character of science during the period covered in this class, while emphasizing differences between the developments in various countries (notably Britain, Germany, France, and the United States). The objective of the course is to give you a better understanding not just of the historical development of scientific ideas but also of the role science plays in modern societies by tracing how it came to play that role.

**Style:** 75% Lecture, 25% Discussion.
HSci 3242 The Darwinian Revolution
3 credit(s); Credit will not be granted if credit has been received for: HSCI 5242; Meets CLE req of Historical Perspectives
Instructor: Borrello, Mark E
Description: Charles Darwin's theory of evolution has generated controversy and comment since the publication of On the Origin of Species in 1859. It has been berated by clerics, embraced by capitalists and communists simultaneously and consistently debated by scientists themselves for the past century and a half. What is it about this idea that makes it so compelling? Why is it that so many people have so many opinions about the theory of evolution? In this course we will look at the history of the theory of evolution and attempt to make sense of these questions. Through a careful historical and philosophical analysis we will gain a deeper understanding of an idea that has become increasingly common yet remains persistently contentious. Our examination of evolutionary theory will be focused initially on Darwin and his work in the Victorian context. We then will look at the controversies over the teaching of evolution in the United States in the twentieth century, from the Scopes Monkey Trial to the current debates. Finally, we will look at the application of evolutionary theory to human behavior. The effort to understand human behavior in evolutionary terms arguably began with Darwin himself, however, the contemporary debate was initiated in the mid-1970's by Harvard entomologist Edward O. Wilson. In the final section of the course we will look at Wilson's program called sociobiology and continue our analysis into the present and an examination of the field of evolutionary psychology.

HSci 3331 Technology and American Culture
3 credit(s); Credit will not be granted if credit has been received for: HSCI 5331; Meets CLE req of Historical Perspectives; meets CLE req of Technology and Society
Instructor: Buchanan, Nicholas Seong Chul
Description: Technology is at the heart of American culture. When we drive a BMW or Prius, wear an iPod or carry a boom box, drive thru for a Big Mac or home to garden-grown salad, we perform distinctive cultural identities. At the same time, technology can foster cultural change, with the emergence of Facebook and Twitter changing our styles of communication, mobile phones changing our notions of "public" and "private" space, and fast food encouraging life on the road. In this course, we will explore how technology has both reflected and changed cultural identity, from the time European settlers and Native Americans discovered one another, to the increasingly global world of today.

HSci 3332 Science and American Culture
3 credit(s); Credit will not be granted if credit has been received for: HSCI 5332; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Hawley, Elizabeth Haven
Description: Student may contact the instructor or department for information.

HSci 3421 Engineering Ethics
3 credit(s); Credit will not be granted if credit has been received for: HSCI 5421; Meets CLE req of Civic Life and Ethics; meets CLE req of Historical Perspectives
Instructor: Alexander, Jennifer Karns
Description: BUILDING THE MODERN WORLD: POWER AND RESPONSIBILITY IN TECHNOLOGY. Engineering and technology are enormous forces in our society, and have become so important that in many ways they seem to have lives of their own. Think of the advanced engineering systems so important to our lives, like the phones we carry and the electricity we plug into, or think of engineering systems like nuclear weaponry, that are powerful but almost hidden from our view. Both the obvious and the hidden systems have important ethical implications. Engineering choices also often bring about consequences greater than anyone expected. This course uses historical case studies to help students realize that engineering is not autonomous, but that it is a human activity, and that people and societies make choices about the types of engineering and technologies they use. We ask how we might use this knowledge about past engineering choices in making our own technological choices today. The goal is to help students see that technological development results from human actions and human ethical choices, and that they themselves are in a position to make ethical choices that can influence the future course of technology.
Style: 50% Lecture, 10% Film/Video, 40% Discussion.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation.

HSci 3611 Science and the Enlightenment
3 credit(s); Credit will not be granted if credit has been received for: HSCI 5611; Meets CLE req of Historical Perspectives
Instructor: Boantza, Victor Dan
Description: What do electric shocks, robotic ducks, hermaphrodite monsters, expeditions to the Pacific Islands, the writings of Isaac Newton, and the novel Frankenstein all have in common? They are all aspects of the pursuit of science in the Age of Enlightenment (roughly the eighteenth century). The rich variety of this list, however, raises questions. Were
such phenomena born out of a unified cultural movement or did they emerge from distinct sources and concerns? How did science become central to Western claims to mastery of nature, society, and the self in this period? What was the relationship between scientific ideas and the objects and practices that embodied them? And did the Enlightenment, as shaped by science, promote individual freedom or ensnare human beings in new regimes of social control? The course explores these questions by looking at topics such as optical experiments, the problem of generation, classifications of natural objects and beings, or discoveries in botany, geography, and anthropology. We will focus on three main themes: (1) the emergence of physical science in the aftermath of the seventeenth-century Scientific Revolution; (2) the role of science in refashioning humans and societies according to new ideas about the natural order; and (3) scientific explorations and exploitations afforded by the new global and imperial world. The course begins with Newton's achievements and ends with the decades around 1800, the era of Revolution and Romanticism.

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

**HSci 3714 Technology and Civilization: Stone Tools to Steam Engines**

3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HSCI 1714; Meets CLE req of Historical Perspectives; meets CLE req of Technology and Society

**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, 25% final exam, 30% reports/papers, 20% additional semester exams, 10% class participation.

1714 students will do three papers, 3-5 pages each. 3714 students will do one 12-15 page research paper, with three components.

**Exam Format:** Combination short identification and essay.

**HSci 3715 Technology and Civilization: Waterwheels to the Web**

3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HSCI 1715; Meets CLE req of Historical Perspectives; meets CLE req of Technology and Society

**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, 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.

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

1714 students will do one 12-15 page research paper, with three components.

**Exam Format:** Combination short identification and essay.

**HSci 3815 Revolutions in Science: Lavoisier, Darwin, and Einstein**

3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HSCI 1815; Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives

**Instructor:** Janssen, Michel

**Description:** This class is the second part of a two-semester introductory survey of the history of science. The two parts can be taken independently of one another. This class covers a selection of developments in physics, chemistry, biology, and geology from the 18th-20th C. We examine the reasoning of some of the leading scientists involved, while being sensitive to the broader social and cultural contexts in which they worked. We also pay attention to the ways in which we obtain knowledge in the history of science. To allow for meaningful analysis of the material, the course is clustered around a few pivotal episodes: the chemical revolution of the late-18th C., the Darwinian revolution of the 19th C and the relativity and quantum revolutions of the early-20th C. We also study the impact of these scientific developments on society. In particular, we look at the reaction of various religious groups to Darwin's theory and at the development of nuclear weapons made possible by the development of modern physics. We pay special attention to the increasingly international character of science during the period covered in this class, while emphasizing differences between the developments in various countries (notably Britain, Germany, France, and the United States). The objective of the course is to give you a better
understanding not just of the historical development of scientific ideas but also of the role science plays in modern societies by tracing how it came to play that role.

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

**Grading:** 10% mid exam, 10% final exam, 65% reports/papers, 5% class participation, 10% other evaluation. attendance

**Exam Format:** a combination of short essay questions and multiple choice (old exams will be made available)

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**HSci 4121W History of 20th-Century Physics**

3 credit(s); general physics or instr consent Credit will not be granted if credit has been received for: PHYS 4121W; Meets CLE req of Writing Intensive

**Instructor:** Janssen, Michel

**Description:** This course is an introduction to the work of historians and philosophers of science trying to trace the conceptual development of 20th-century physics. Our main focus will be on the development of relativity theory (both special and general) and quantum theory in the first quarter of the century. Special attention will be paid to the contributions of Albert Einstein. We will also study some episodes in the further developments of these fields: in nuclear physics in the 1930s, in particle physics in the 1970s, in both cases with special attention to the interplay between theory and experiment. Finally, we will look at the development of big bang cosmology and its marriage with particle physics in inflationary cosmology. Readings are taken from a variety of sources. General surveys are used to get us started on a particular topic. That will prepare us for more specialized literature in history and philosophy of science. We will also read (passages from) some of the seminal texts written by the physicists we will study, both to get some of the flavor of their work and to evaluate interpretations and reconstructions of these texts offered in the historical and philosophical literature. The course is aimed at upper-level undergraduate and graduate students in physics, history of science, and philosophy of science, but should be of interest to other students with a strong interest in 20th-century physics as well.

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

**Grading:** 10% class participation, 90% other evaluation. take-home essays/paper (grad students)

**Exam Format:** Take-home essay

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**HSci 4455 Women, Gender, and Science**

3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives

**Instructor:** Hawley, Elizabeth Haven

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

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**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.

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**HSci 5421 Engineering Ethics**

3 credit(s); Credit will not be granted if credit has been received for: HSCI 3421

**Instructor:** Alexander, Jennifer Karns

**Description:** BUILDING THE MODERN WORLD: POWER AND RESPONSIBILITY IN TECHNOLOGY. Engineering and technology are enormous forces in our society, and have become so important that in many ways they seem to have lives of their own. Think of the advanced engineering systems so important to our lives, like the phones we carry and the electricity we plug into, or think of engineering systems like nuclear weaponry, that are powerful but almost hidden from our view. Both the obvious and the hidden systems have important ethical implications. Engineering choices also often bring about consequences greater than anyone expected. This course uses historical case studies to help students realize that engineering is not autonomous, but that it is a human activity, and that people and societies make choices about the types of engineering and technologies they use. We ask how we might use this knowledge about past engineering choices in making our own technological choices today. The goal is to help students see that technological development results from human actions and human ethical choices, and that they themselves are in a position to make ethical choices that can influence the future course of technology.

**Style:** 50% Lecture, 10% Film/Video, 40% Discussion.

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

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**HSci 5611 Science and the Enlightenment**

3 credit(s); Credit will not be granted if credit has been received for: HSCI 3611

**Instructor:** Boantz, Victor Dan

**Description:** What do electric shocks, robotic ducks, hermaphrodite monsters, expeditions to the Pacific Islands, the writings of Isaac Newton, and the novel Frankenstein all have in common? They are all aspects of the pursuit of science in the Age of Enlightenment (roughly the eighteenth century). The rich variety of this list, however, raises questions. Were such phenomena born out of a unified cultural movement or did they emerge from distinct sources and concerns? How did science become central to Western claims to mastery of nature, society, and the self in this period? What was the relationship between scientific ideas and the objects and practices that embodied them? And did the Enlightenment, as shaped by science, promoted individual freedom or ensnared human beings in new regimes of social control? The course
explores these questions by looking at topics such as optical experiments, the problem of generation, classifications of natural objects and beings, or discoveries in botany, geography, and anthropology. We will focus on three main themes: (1) the emergence of physical science in the aftermath of the seventeenth-century Scientific Revolution; (2) the role of science in refashioning humans and societies according to new ideas about the natural order; and (3) scientific explorations and exploitations afforded by the new global and imperial world. The course begins with Newton’s achievements and ends with the decades around 1800, the era of Revolution and Romanticism.

**Grading:** 15% mid exam, 35% final exam, 40% reports/papers, 10% attendance.

**HSci 5993 Directed Studies**
- 1-15 credit(s), max credits 15, 1 completion allowed;
- **Instructor:** Janssen, Michel
- **Description:** Student may contact the instructor or department for information.

**HSci 5993 Directed Studies**
- 1-15 credit(s), max credits 15, 1 completion allowed;
- **Instructor:** Borrello, Mark E
- **Description:** Student may contact the instructor or department for information.

**HSci 5993 Directed Studies**
- 1-15 credit(s), max credits 15, 1 completion allowed;
- **Instructor:** Buchanan, Nicholas Seong Chul
- **Description:** Student may contact the instructor or department for information.

**HSci 8113 Research Methods in the History of Science, Technology, and Medicine**
- A-F only, 3 credit(s); Credit will not be granted if credit has been received for: HMED 8113;
- **Instructor:** Gunn, Jennifer
- **Description:** Student may contact the instructor or department for information.

**HSci 8125 Foundations for Research in the Scientific Revolution**
- A-F only, 3 credit(s);
- **Instructor:** Boantza, Victor Dan
- **Description:** Student may contact the instructor or department for information.

**HSci 8920 Seminar: History of Biological Sciences**
- 3 credit(s);
- **Instructor:** Jones, Susan D.
- **Description:** Student may contact the instructor or department for information.

**HSci 8930 Seminar: History of Technology**
- 3 credit(s);
- **Instructor:** Misa, Thomas J
- **Description:** Student may contact the instructor or department for information.

### Hmong 220 Folwell Hall

**Hmng 1002 Introduction to Hmong Language**
- 5 credit(s); 1001 or 1011 Credit will not be granted if credit has been received for: HMNG 4102;
- **Instructor:** Vang, Bee
- **Description:** This course is a continuation of Hmong 1001 for students with limited language/literacy background in the Hmong. This course will set the foundation of learning the Hmong language for any student with limited language/literacy background in Hmong. The course emphasizes the individual learning styles and preferences of each student. Instruction is oriented towards using best practice methods to help students learn and retain information in order to use the language effectively. All the aspects of linguistic performance: speaking, reading, writing and listening would be given roughly equal consideration. Using essentially a communicative-interactional teaching methodology, supplemented with appropriate grammatical details, the students will be, systematically and incrementally, introduced to materials that will enable them to acquire cultural and linguistic literacy about Southeast Asia, the Hmong community in particular.

**Hmng 1012 Beginning Hmong**
- 5 credit(s); 1001 or 1011 or instr consent Credit will not be granted if credit has been received for: HMNG 4002;
- **Instructor:** Vang, Bee
**Hmng 1012 Beginning Hmong**

5 credit(s); 1001 or 1011 or instr consent Credit will not be granted if credit has been received for: HMNG 4002;  
Instructor: LeYang, Maxwell  
**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, and speaking skills using the Hmong Romanized Phonetic Alphabet (RPA); 2) strengthen the students' ability to communicate, and negotiate meanings in basic Hmong at the inter-personal level in the classroom, at home, and/or out in the community; and, 3) to 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, 10% Film/Video, 30% Discussion. Class Activities and Research  
**Grading:** 25% mid exam, 25% final exam, 10% reports/papers, 10% quizzes, 10% written homework, 10% attendance.

**Exam Format:** Multiple choices, fill in the blanks, short answers, and oral.

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**Hmng 1016 Accelerated Intermediate Hmong**

5 credit(s); [1011 and 1012] or 1015 or instr consent 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 taken the Beginning Hmong courses. 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, and speaking using the Hmong Romanized Phonetic Alphabet (RPA); 2) to strengthen/ enhance the students' ability to communicate and negotiate meanings in basic 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, custome, and folktales. 6. Increase their understanding on the usage of Hmong grammatical rules.

**Style:** 50% Lecture, 30% Discussion. Class Activities and Research  
**Grading:** 20% mid exam, 20% final exam, 20% special projects, 20% quizzes, 10% written homework, 10% attendance.

**Exam Format:** ALL
**Hmng 3032 Advanced Hmong**

4 credit(s); 3031 or equiv or instr consent
Credit will not be granted if credit has been received for: HMNG 4008; 
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. 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.

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**Hmng 3290 Hmong Language Teaching Tutorial**

S-N only, 1 credit(s), max credits 2; 
Instructor: Vang, Bee
Description: Student may contact the instructor or department for information.

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**Hmng 4002 Beginning Hmong**

3 credit(s); 4001 Concurrent registration is required (or allowed) in grad student
Credit will not be granted if credit has been received for: HMNG 1012; 
Instructor: Vang, Bee
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. The contents of the course continue to include the exposure of 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. Professins 2. numbers and times 3. Dishes and vegetables 4. Fruits and cakes and 5. Communities. Required Texts: The texts for the course is Phau Qhia Ntawv Hmoob (Phau Ib) at Paradigm.

Style: 60% Lecture, 5% Film/Video, 10% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Demonstration. Work group, class activities, presentation, audio/video, etc.

Grading: 25% mid exam, 25% final exam, 10% reports/papers, 10% quizzes, 10% written homework, 10% attendance, 10% class participation. Homework and project

Exam Format: Multiple choices, fill in the blanks, short answers, and oral.

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**Hmng 4004 Intermediate Hmong**

3 credit(s); 4003 Concurrent registration is required (or allowed) in grad student
Credit will not be granted if credit has been received for: HMNG 3022; 
Instructor: LeYang, Maxwell
Description: This course is designed for students who have already taken the Beginning Hmong courses. It is expected that the student understand all materials before coming to class to fully participate in the session. The main objectives of this course are to 1) reinforce basic reading, writing, and speaking using the Hmong Romanized Phonetic Alphabets (RPA); 2) to strengthen/enhance the students' ability to communicate and negotiate meanings in basic White Hmong at the interpersonal 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, costume, and folktales. 6. Increase their understanding on the usage of Hmong grammatical rules.

**Style:** 50% Lecture, 30% Discussion. Class Activities and Research

**Exam Format:** All

**Hmng 4004 Intermediate Hmong**

3 credit(s);4003 Concurrent registration is required (or allowed) in grad student Credit will not be granted if credit has been received for: HMNG 3022;

**Instructor:** Thao, Nao

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

**Hmng 4006 Accelerated Intermediate Hmong**

3 credit(s);4005, basic spoken Hmong, grad student Credit will not be granted if credit has been received for: HMNG 1016;

**Instructor:** Vang, Bee

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

**Hmng 4102 Introduction to Hmong Language**

3 credit(s); Credit will not be granted if credit has been received for: HMNG 1002;

**Instructor:** Vang, Bee

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

**Honors Colloquia 20 Nicholson Hall**

**HCol 3805H Honors Global Challenge: Our Common Waters: Making Sense of the Great Lakes**

A-F only, 3 credit(s); Meets CLE req of Environment

**Instructor:** Swackhamer, Deborah L

**Description:** This honors class will explore "water" by focusing on the Great Lakes, using a liberal arts approach to emphasize the interdisciplinary aspects of water in nature and society. Students will learn about the chemical, ecological, and geological aspects and challenges of the Great Lakes, in addition to their rich history, their economic drivers, their musical, artistic, and cultural contributions, and the laws and regulations that govern them and have shaped national and international policy. Requirements include attendance and participation, a class presentation, several writing assignments, two exams, and a collaborative final project to explore one of these areas in more depth. An optional field experience in Duluth and boat trip on Lake Superior is also planned. A limited number of students not currently in the University Honors Program may enroll with instructor permission.

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

**Grading:** 20% mid exam, 20% final exam, 10% reports/papers, 30% special projects, 5% attendance, 10% journal, 5% reflection paper.

**HCol 3807H Honors Global Challenge: Politics of Reconciliation, Memory and Justice**

A-F only, 3 credit(s); Meets CLE req of Global Perspectives

**Instructor:** Guisan, Catherine B.

**Description:** Political reconciliation has become a major theme in domestic and international politics since the end of the Cold War in 1989, and the Arab Spring has made it even more relevant. This course offers a thorough introduction to the many ways of thinking through and acting out political reconciliation. But what does this term mean exactly? Are we witnessing efforts to bring final resolution to long-standing conflicts? Or should we accept that reconciliation is at best a fragile, temporary equilibrium between opposite political forces that must be reenacted with each passing generation? Is reconciliation an action that rests on religious faith or does religion threaten reconciliation? Is there a dark side to reconciliation that undermines justice and economic fairness? The course's cross-disciplinary approach will acquaint you with important analytical concepts and texts in political theory, political science, history, and sociology -- and self-reflection by actors of reconciliation -- to help you ponder these questions. The course will also train you in qualitative research in the social sciences by asking you to research reconciliation politics in one of several Twin Cities communities with a group of 5 other students. Requirements include attendance and participation, a class presentation, two exams, and a collaborative final project.

**Honors Seminar 20 Nicholson Hall**

**HSem 2006H Honors Seminar: Summer Camps: American Culture and Youth**

A-F only, 3 credit(s);

**Instructor:** Prell, Riv-Ellen

**Description:** Summer camps have served as one of the most important experiences in socializing many American children
and teens. This seminar examines American summer camps from the late 19th century to the 1970s, seeking to understand not only their history but why they have been so important to youths? personal development. We will focus on the concepts of childhood and youth, and the political and cultural climate that gave rise to the residential summer camp in the wilderness. We will examine how cultural ideas about race, gender, sexuality and social class were encoded into camping, and with that why ?playing Indian? and ?minstrel shows? served as the foundation of the camp experience across all summer camps for more than a century. The summer camp will also provide the context for exploring concepts of wilderness and ritual, and camp will be explored as a setting for youth rebellion. The class will use a wide set of sources to explore these issues, including memoirs, film, fiction, and cultural histories, as well as song books, camp newsletters, and other artifacts. Students will write a paper drawing on similar sources and will have the opportunity to use archives available on campus with access to the papers of the YMCA, and the Social Welfare Archive.

HSem 2039H Honors Seminar: Thursdays at Four: Across the University & Beyond
A-F only, 3 credit(s), max credits 6;
Instructor: Smith,Susannah L
Description: This seminar brings the best of the University's research and creative work to you. Every Thursday afternoon, the Institute for Advanced Study offers a presentation?a lecture, discussion, performance?by leading scholars and artists from around the world and within the University. Seminar participants will attend the Thursdays at Four series and meet on Tuesdays to discuss the presentations, which will draw upon disciplines across the University. You will do supplemental readings related to the presentations and talk with presenters as their schedules allow. The Spring 2014 presentation schedule will be available in mid-fall 2013 at http://ias.umn.edu/programs/thursdays-at-four/. This is the perfect seminar to introduce you to the rich variety of work done at the University.

HSem 2046H Honors Seminar: Linguistics in the Media and Beyond
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive
Instructor: Soh,Hooi Ling
Description: This seminar provides a forum to discuss issues and recent discoveries in the scientific study of language as reported in the media in recent years, and goes beyond media reports by identifying primary sources for further examination and discussion. The seminar thus provides an introduction to selected topics in linguistics. These include universal grammar, relations among language, thought, and culture, language variation, language acquisition, language gene, language change, and language evolution. Media headlines that you will examine include: "Talking the tawk," "Scientists identify a language gene," and "Has a remote Amazonian tribe upended our understanding of language?" Students will learn about some of the central questions in the field and ways in which answers to these questions are sought. The seminar is organized in a way that encourages critical thinking and effective communication. Students will be asked to relate the course materials to their own experience and knowledge of language.

HSem 2530H Honors Seminar: Environmental Controversy, Science, and the Law
A-F only, 3 credit(s), max credits 6;
Instructor: Buchanan,Nicholas Seong Chul
Description: Is nuclear power safe? Why is the climate changing? Is an animal species endangered? What are the risks of genetically modified foods? These are but a few of the questions at the center of ongoing environmental controversies and conflicts that affect the lives of everyone on earth. In this course, you will examine historical and contemporary environmental struggles with a focus on the relationship between science and law in environmental decision-making. To do so, we'll explore the changing place of the natural sciences in law, attitudes among diverse societies as to what constitutes "nature," different ways of making knowledge about the environment (whether scientific or popular), and the intense scientific disagreements at the heart of many environmental conflicts. In addition, you'll tackle questions such as: What is expert knowledge and why do experts disagree? and How can we make informed environmental decisions in the face of uncertainty? The course is equally suited to students from all disciplines and assumes no prior experience in environmental science or law.
Style: 15% Lecture, 85% Discussion.

HSem 3038V Honors Seminar: The Rise of Religion in Modern America
A-F only, 3 credit(s);Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive
Instructor: Butler,Jon H
Description: This seminar explores intersections of religion and modern American life between the 1870s and the present, focusing on religion and social values, politics, community, race, gender, and ethnicity. It also stresses America's role in spawning new religions and renewing old ones, with special attention to understanding religion's remarkable persistence in modern America down to the twenty-first century. Readings include major figures such as William James, John Dewey, Dorothy Day, Reinhold Niebuhr, Abraham Heschel, Martin Luther King, Jerry Falwell, the novelist James Baldwin, and a variety of historians.

HSem 3039H Honors Seminar: Living with the Mississippi River
A-F only, 3 credit(s), max credits 6;Meets CLE req of Environment
Instructor: Nunnally,Patrick
**HSem 3054H Honors Seminar: The Agile Mind: Cognitive and Brain Bases**  
**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 centrally depends both on the ability to vary our level of cognitive control (from more automatic and intuitive to more controlled or deliberate processes) and our level of representational specificity (from more specific to more abstract). Representative topics will include: The effects of reinforcing variable rather than habitual behavior; 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; the importance of mentally stimulating environments in adaptive cognition and behavior; and the brain changes that both accompany and support flexible thinking. You will read original research papers from several areas of psychology and cognitive neuroscience so as to arrive at a broad, integrated, and empirically informed view of flexible thinking.

**HSem 3067V Honors Seminar: Writing and Social Change in America**  
**Description:** In the first half of the seminar, you will examine some of the key issues of social change using examples from the late 18th through the 19th century. These will include Paine's Common Sense, the Declaration of Independence, US Constitution, and Federalist Papers, Cummins's The Lamplighter (an early best-seller), Stowe's Uncle Tom's Cabin, and Twain's Adventures of Tom Sawyer. In addition to reading the texts, students will track down contemporary reactions -- book reviews, advertisements, letters and journals, etc. This will help us figure out why and how these texts were targeted to and affected their contemporary audiences. The second half of the seminar will see students select and report on 20th century texts. A goal of the course is for students to produce a wide range of examples and track down influential texts in their own areas of interest. For example, the student of politics might present Wilson's "14 Points" or King's "I Have a Dream" or "Letter from Birmingham Jail," while the biologist might discuss the Watson-Crick paper on DNA. Literary examples might contrast a respectable yet controversial novel like Catcher in the Rye with a sleazy companion like Peyton Place. Students will also investigate the ways that media (TV, movies) interact to create and maintain best-selling books.

**HSem 3504H Honors Seminar: The Healthcare Marketplace**  
**Description:** Over one trillion dollars is spent annually on health care in the United States, constituting the largest sector in the economy. With growing demand for medical technology and the aging of the population, spending is expected to dramatically increase over the next two decades. The healthcare sector is comprised of several markets for goods and services, including physician services, hospital services, insurance, long-term care, pharmaceuticals and medical devices, and information technology. This course aims to provide an introduction to each market through lectures, discussions, and presentation from healthcare business leaders.

**HSem 3702H Honors Seminar: Issues in Bioethics**  
**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 the 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, death and dying, forgoing life-sustaining treatment, war and terrorism, conflicts of interest, pandemics, human and animal research, genomics, bodies and body parts, public and global health, environmental ethics, and social justice. The course will be taught in seminar fashion with occasional presentations by guest faculty. A method of case analysis will be taught and used to examine real cases. Class sessions will bring didactic material and the case analysis method to bear on a
HSem 3720H Honors Seminar: Conflict, Anger, Aggression and Violence
A-F only, 3 credit(s), max credits 3, 1 completion allowed;
Instructor: Potegal, Michael
Description: Bullying, school shootings, genocide, and war are examples of aggression that cause misery, trauma, and death on an increasing scale. Why do people engage in such aggressive behavior? Is aggression in our “animal nature,” our genes, or our brains -- or is it the result of our physical, social, or economic environment, our upbringing, or our cultures? Is aggression inevitable, or are there things we can do to prevent or limit it? This topical seminar will review areas of research on conflict, aggression, anger, and violence in humans and other animals. The first section of the seminar will guide students to an understanding of current views on its biological bases -- aggression as an evolutionary adaptation and a reproductive strategy, and its corresponding genetic, neural, and hormonal substrates. The middle third of the seminar will focus on aggression at the level of individuals. This includes behavioral expression (e.g., anger, direct vs. indirect forms of aggression), development (e.g., tantrums, bullying), learning of and motivation for aggression, aggression-prone personality, and psychopathology. The last section of the seminar will deal with aggression in small and large social groups (e.g., gang violence, effects of culture, warfare, and genocide.)

Horticultural Science

Hort 1001 Plant Propagation
4 credit(s); Meets CLE req of Biological Sciences
Instructor: Smith, Alan G
Description: Student may contact the instructor or department for information.

Hort 1003 Horticulture for the Home Gardener
3 credit(s);
Instructor: Weisenhorn, Julie Edith
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 16-module class is designed to provide a foundation in various horticulture, soil and plant sciences. Modules are taught byExtension faculty 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. Based on the Extension Master Gardener core course. Fulfills three MNLA certification credits.
Style: Online
Grading: Participation is determined by active time logged in the online class site.

Hort 1014 Edible Landscape
3 credit(s); Meets CLE req of Technology and Society
Instructor: Michaels, Thomas E
Description: An edible landscape is simply a space, established and managed by humans, that supports edible plants. Contemporary edible landscapes in North America are found on scales ranging from the regional (monoculture commodity production) to local (orchards, market gardens), to neighborhood (community gardens) to residential (backyard and indoor gardens). Our close relationship with edible landscapes traces to the point in our hunting-gathering origins when we began imagining the transition to settled agriculture. Ancient garden designs that followed supported food production but also celebrated culturally important mythologies. Now, as a response to technological and social change we in North America have mostly delegated management of edible landscape spaces to a small minority of the population and distanced ourselves from our food sources. This course is a small step toward understanding, reclaiming and expanding edible landscape spaces. With imagination and environmental respect we can integrate food plants into pleasing, sustainable and edible landscapes in our yards, neighborhoods and even the region of the country in which we live. 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 confluence 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.
Hort 1031 Vines and Wines: Introduction to Viticulture and Enology

OPT No Aud, 3 credit(s);
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 a local winery to tour their vineyards and learn about commercial wine making processes.

Style: 65% Lecture, 15% Discussion, Sensory Evaluation
Grading: 20% mid exam, 25% final exam, 25% reports/papers, 10% quizzes, 15% written homework, 5% class participation.
Exam Format: multiple choice; short answer

Hort 1090 Directed Studies

1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Watkins,Eric

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

Hort 3005W Environmental Effects on Horticultural Crops

4 credit(s); Meets CLE req of Writing Intensive
Instructor: Hoffman,Lindsey

Description: The purpose of this class is to familiarize students with plant physiological processes including photosynthesis, respiration, and signal transduction. In addition, the effect of environmental stresses on plant growth and development will be addressed. This course has both a lecture and laboratory component, which will allow students to gain experience in experimental techniques, data analysis, and scientific writing.

Style: 40% Lecture, 5% Discussion, 35% Laboratory, 5% Small Group Activities, 10% Guest Speakers. Class time percentages may change based on the lecture or laboratory topic.
Grading: 25% mid exam, 25% final exam, 15% reports/papers, 15% quizzes, 3% attendance, 10% in-class presentation, 3% class participation. Percentages are subject to change.

Hort 3090 Directed Studies

2-12 credit(s), max credits 72, 6 completions allowed;
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); 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: Michaels,Thomas E

Description: As a result of successfully completing this course you will understand the principles that underlie the USDA National Organic Program and be able to interpret USDA organic certification guidelines for plant production. You will be able to apply these guidelines to effectively transition a conventional farm to a certified organic farm and to maintain its organic certification. In addition you will become familiar with different plant production approaches and practices in organic produce production. Beyond the course content, you will also acquire skills in collaborative learning techniques based on consensus building methods. Since this is a laboratory course, about half of your grade will be determined from laboratory experiences. Lab is intended to simulate the experiences of working on an organic farm while integrating educational research and experiments. Lab attendance, just like lecture attendance, is mandatory. Plant growth is not totally predictable, and active exploration, along with observation, is an integral part of the course. Your laboratory grade will depend on you attending lab, performing experiments, growing plants and making conclusions based on your results. Your grade for the course will be based on a midterm exam, a final exam, weekly written reactions to assigned reading, an organic system planning project and approximately six laboratory reports.
Hort 4000 International Experiences in Horticultural Science
3 credit(s), max credits 6;
Instructor: Meyer, Mary Hockenberry
Description: This 3-credit class will meet weekly during Spring Semester 2014 and travel to Britain during Spring Break, March 14-23, 2014. There are no prerequisites for the class and it is open to all U of M students. The overall goals and objectives of this class are: 1. For students learn first-hand what the challenges are in creating and maintaining school gardens. 2. To connect U of M students to community garden projects for the semester, and hopefully long term as well. 3. To examine British methods of successful school gardens, especially their methods of engaging college students in school and community garden projects. 4. For students to have a successful international educational experience. During the semester, students will visit and learn from developing (new) and existing school garden programs in the Twin Cities. We will be examining the already defined critical elements of successful school gardens. Gardens as well as open green space such as a nature preserves, or a pollinator project, aquaculture and indoor gardening are all possible venues for students to engage with partner schools or community partners. Students will determine the needs, wants, constraints and issues for partner organizations or schools as they establish or advance their school garden projects. During Spring Break, students will visit gardens in the greater London area and learn from the Royal Horticultural Society (RHS) about successful school projects in Britain. By the end of the semester, students will have developed a working list of critical components of successful school gardens and partnered with a school or community garden project in the Twin Cities to examine these issues first-hand, and be able to compare and contrast London and Twin Cities school gardens.
Style: 20% Lecture, 20% Discussion, 20% Small Group Activities, 20% Student Presentation, 20% Field Trips.
Grading: 20% reports/papers, 30% special projects, 10% written homework, 15% attendance, 15% in-class presentation, 10% class participation.

Hort 4015 Advanced Woody and Herbaceous Plant Topics: Spring Flowering Trees & Shrubs
A-F only, 1 credit(s), max credits 7, 7 completions allowed;
Instructor: Hokanson, Stan C
Description: Student may contact the instructor or department for information.

Hort 4063 Turfgrass Science
A-F only, 3 credit(s);
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

Hort 4096 Professional Experience Program: Internship
S-N only, 1 credit(s), max credits 2;
Instructor: Watkins, Eric
Description: Student may contact the instructor or department for information.

Hort 4096W Professional Experience Program: Internship
A-F only, 2 credit(s); Meets CLE req of Writing Intensive
Instructor: Watkins, Eric
Description: Student may contact the instructor or department for information.

Hort 4401 Plant Genetics and Breeding
4 credit(s); 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
Hort 4850 Pollinator Protection in Managed Landscapes

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

**Instructor:** Watkins, Eric

**Description:** Bee pollinators (honey bees, Apis mellifera, and over 4000 species of native bees) are in trouble. Bee health is failing across Minnesota and the nation due to a scarcity of bee-friendly flowers leading to nutritional deficiencies, chronic exposure to pesticides, and debilitating diseases and parasites. Bees play a key role in American agriculture through pollination; the U.S. grows more than one hundred crops that either need or benefit from pollinators with an economic value estimated at $20 billion in 2000. The Upper Midwest, including MN, ND and SD are the top honey producing states in the nation. Commercial beekeepers transport their colonies to these states for the summer months for honey production after fulfilling pollination contracts in other parts of the nation. People are taking action to rectify the decline of honey bees and native pollinators by becoming beekeepers, reducing pesticide exposure to bees, and planting flowers to support the nutritional needs of all bees. In addition, a number of non-bee pollinators play important roles in managed landscapes. The course will cover pollinator protection in managed landscapes such as gardens, lawns, roadsides, small farms, organic farms, conventional farms, golf courses, urban parks, rural parklands, prairies etc. The course will begin by introducing you to pollinators and the importance of pollinators in agricultural and other managed and natural landscapes. Next you will examine the risks to pollinators and ways that those risks can be reduced, minimized, or overcome. Finally, you will learn about the ways that public policy has impacted pollinators and how future policy decisions will affect pollinator protection efforts.

**Style:** 25% Lecture, 15% Small Group Activities, 5% Student Presentation, 5% Field Trips, 20% Guest Speakers, 30% Web Based. The course will be taught in a blended format (part online, part classroom). Approximately 1/3 of the course content will be delivered electronically. There will be one required field trip on a Saturday in April or early May.

**Grading:** 10% mid exam, 15% final exam, 50% special projects, 10% quizzes, 5% in-class presentation, 5% class participation, 5% problem solving.

**Exam Format:** short answer / essay

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Hort 4850 Pollinator Protection in Managed Landscapes

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

**Instructor:** Spivak, Marla

**Description:** Bee pollinators (honey bees, Apis mellifera, and over 4000 species of native bees) are in trouble. Bee health is failing across Minnesota and the nation due to a scarcity of bee-friendly flowers leading to nutritional deficiencies, chronic exposure to pesticides, and debilitating diseases and parasites. Bees play a key role in American agriculture through pollination; the U.S. grows more than one hundred crops that either need or benefit from pollinators with an economic value estimated at $20 billion in 2000. The Upper Midwest, including MN, ND and SD are the top honey producing states in the nation. Commercial beekeepers transport their colonies to these states for the summer months for honey production after fulfilling pollination contracts in other parts of the nation. People are taking action to rectify the decline of honey bees and native pollinators by becoming beekeepers, reducing pesticide exposure to bees, and planting flowers to support the nutritional needs of all bees. In addition, a number of non-bee pollinators play important roles in managed landscapes. The course will cover pollinator protection in managed landscapes such as gardens, lawns, roadsides, small farms, organic farms, conventional farms, golf courses, urban parks, rural parklands, prairies etc. The course will begin by introducing you to pollinators and the importance of pollinators in agricultural and other managed and natural landscapes. Next you will examine the risks to pollinators and ways that those risks can be reduced, minimized, or overcome. Finally, you will learn about the ways that public policy has impacted pollinators and how future policy decisions will affect pollinator protection efforts.

**Style:** 25% Lecture, 15% Small Group Activities, 5% Student Presentation, 5% Field Trips, 20% Guest Speakers, 30% Web Based. The course will be taught in a blended format (part online, part classroom). Approximately 1/3 of the course content will be delivered electronically. There will be one required field trip on a Saturday in April or early May.

**Grading:** 10% mid exam, 15% final exam, 50% special projects, 10% quizzes, 5% in-class presentation, 5% class participation, 5% problem solving.

**Exam Format:** short answer / essay
Hort 5007 Advanced Plant Propagation
3 credit(s);
Instructor: Cohen, Jerry D
Description: The primary focus of this course is the biology of micro-propagation of plant materials. Lectures discuss propagation media and its constituents, the basis for control or manipulation of growth/development in the sexual/ASEXUAL reproduction of plants. The effects of environment, plant growth substances and culture techniques on propagation are also discussed. Lab protocols deal with overcoming dormancy, viral and microbial endophytes, plant transformation, grafting and the development of adventitious structures. The laboratories consist of standard lab protocols, guest faculty protocols as well as a discovery environment where individual students undertake self-directed propagation research. Lecture, lab.

Hort 5023 Public Garden Management
2 credit(s);
Instructor: Hokanson, Stan C
Description: Student may contact the instructor or department for information.

Hort 5051 Plant Production II
A-F only, 4 credit(s);
Instructor: Anderson, Neil O.
Description: The purpose of this course is to acquaint students with the basic cultural requirements of commercially produced floral and nursery crops, growing structures for crops, gain experience in scheduling and growing various species, and conduct experiments to understand current problems. Through the use of interactive learning, written assignments, and in-class discussions students will learn crop requirements and the interactions between the horticultural distribution chain of breeders, producers, distributors, growers, retailers, and consumers. The course is designed for undergraduates (majors and non-majors) and graduates. This course complements Hort 4141W; we will cover new topic areas as well as use the information from that course herein. Upon completion of this course, each student should have command of the following concepts: - Identification of specific floral and nursery plant crops, including annuals, biennials, and perennials. - Be a decision-maker, both for growing crops as well as manipulating the correct environments for crop production, e.g. the proper growing structure and factors of plant growth. - 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 floral and nursery plants. - Understand, manipulate, and anticipate the effects of the five factors of plant growth for quality plant production. - Be able to comprehend and discuss primary literature and transfer this information into workable testing by growers. - 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 high quality crops, using industry standards.
Style: 25% Lecture, 10% Discussion, 50% Laboratory, 5% Small Group Activities, 5% Student Presentation, 5% Web Based.
Grading: 20% reports/papers, 5% special projects, 15% written homework, 5% attendance, 10% journal, 5% in-class presentation, 5% class participation, 35% laboratory evaluation.
Exam Format: Biweekly or weekly quizzes will be essay questions.

Hort 5058 Plant Cytogenetics
2 credit(s);
Instructor: Chen, Changbin
Description: Student may contact the instructor or department for information.

Hort 5059 Plant Cytogenetics Lab
1 credit(s), max credits 2, 1 completion allowed;
Instructor: Chen, Changbin
Description: Student may contact the instructor or department for information.

Hort 5061 Advanced Turfgrass Science
2 credit(s);
Instructor: Watkins, Eric
Description: Student may contact the instructor or department for information.

Hort 5090 Directed Studies
1-6 credit(s), max credits 18, 18 completions allowed;
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 6003 Masters of Professional Studies in Horticulture Professional Experience Program: Internship**
- S-N only, 1-3 credit(s), max credits 6;
- Instructor: Erwin, John E
- Description: Student may contact the instructor or department for information.

**Hort 8007 Extension Horticulture Practicum**
- 1-5 credit(s), max credits 5, 1 completion allowed;
- Instructor: Luby, James Joseph
- Description: Student may contact the instructor or department for information.

**Hort 8090 Graduate Horticultural Research**
- 1-12 credit(s), max credits 18, 18 completions allowed;
- Instructor: Luby, James Joseph
- Description: Student may contact the instructor or department for information.

**Hort 8270 Graduate Seminar**
- A-F only, 1 credit(s); 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);
- Instructor: Thill, Christian A
- Description: Student may contact the instructor or department for information.

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**Housing Studies 240 McNeal Hall**

**Hsg 2196 Work Experience in Housing Studies**
- S-N only, 1-4 credit(s), max credits 8;
- Instructor: Ziebarth PhD, Ann
- Description: Student may contact the instructor or department for information.

**Hsg 2196 Work Experience in Housing Studies**
- S-N only, 1-4 credit(s), max credits 8;
- Instructor: Yust, Becky L
- Description: Student may contact the instructor or department for information.

**Hsg 2196 Work Experience in Housing Studies**
- S-N only, 1-4 credit(s), max credits 8;
- Instructor: Angell, William J
- Description: Student may contact the instructor or department for information.

**Hsg 2196 Work Experience in Housing Studies**
- S-N only, 1-4 credit(s), max credits 8;
- Instructor: Crump, Jeffrey R
- Description: Student may contact the instructor or department for information.

**Hsg 2196 Work Experience in Housing Studies**
- S-N only, 1-4 credit(s), max credits 8;
- Instructor: Bruin, Marilyn J
- Description: Student may contact the instructor or department for information.

**Hsg 3482 Sustainable Housing: Community, Environment, and Technology**
- A-F only, 3 credit(s); credit will not be granted if credit already received for: DHA 3482
- Credit will not be granted if
credit has been received for: ESPM 3601; Meets CLE req of Technology and Society
Instructor: Seavey, Robert Thomas
Description: Perhaps you've noticed the high tech house on campus across from the Bell Museum. Will all housing be
built with similar technologies in the future? Should it? Perhaps you've been in a neighborhood and wondered whether the
residents ever see each other. How do housing practices and the choices we make about housing resources affect a sense
of community? And what about the new and incredibly efficient but expensive LED light bulbs: are they worth it? As
population continues to grow and as environmental issues become more pressing, it has become increasingly clear that
some housing practices and technologies are more sustainable than others, and in this course you will learn about the
challenges and choices we all face in creating and maintaining housing. Historically, we have mostly allowed people to do
what they want on their own property, and to build without much thought to how natural events impact communities, but
does this freedom carry an unsustainable cost to the surrounding environment, and to our communities? Housing is a basic
necessity, and the knowledge you gain in this course is something you will use for the rest of your life.

Hsg 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Ziebarth PhD, Ann
Description: Student may contact the instructor or department for information.

Hsg 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Yust, Becky L
Description: Student may contact the instructor or department for information.

Hsg 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Angell, William J
Description: Student may contact the instructor or department for information.

Hsg 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

Hsg 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Bruin, Marilyn J
Description: Student may contact the instructor or department for information.

Hsg 4193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Ziebarth PhD, Ann
Description: Student may contact the instructor or department for information.

Hsg 4193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Yust, Becky L
Description: Student may contact the instructor or department for information.

Hsg 4193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Angell, William J
Description: Student may contact the instructor or department for information.

Hsg 4193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

Hsg 4193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Hsg 4196 Internship in Housing Studies
S-N only, 1-4 credit(s), max credits 4, 1 completion allowed; Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent credit will not be granted if credit already received for: DHA 4196; Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Ziebarth PhD, Ann
Description: Student may contact the instructor or department for information.

Hsg 4196 Internship in Housing Studies
S-N only, 1-4 credit(s), max credits 4, 1 completion allowed; Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent credit will not be granted if credit already received for: DHA 4196; Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Yust, Becky L
Description: Student may contact the instructor or department for information.

Hsg 4196 Internship in Housing Studies
S-N only, 1-4 credit(s), max credits 4, 1 completion allowed; Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent credit will not be granted if credit already received for: DHA 4196; Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Angell, William J
Description: Student may contact the instructor or department for information.

Hsg 4196 Internship in Housing Studies
S-N only, 1-4 credit(s), max credits 4, 1 completion allowed; Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent credit will not be granted if credit already received for: DHA 4196; Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

Hsg 4196 Internship in Housing Studies
S-N only, 1-4 credit(s), max credits 4, 1 completion allowed; Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent credit will not be granted if credit already received for: DHA 4196; Credit will not be granted if credit has been received for: ADES 4196;
Instructor: Bruin, Marilyn J
Description: Student may contact the instructor or department for information.

Hsg 4413 A Systems Approach to Residential Construction
A-F only, 4 credit(s); Upper div or instr consent Credit will not be granted if credit has been received for: BBE 4413;
Instructor: Janni, Kevin A
Description: For students interested in the science of how houses work and how green buildings are planned, assembled and maintained. This course begins with a presentation of the construction process, from the foundation up to the roof. We then discuss the building science related to the systems approach to residential buildings. Finally, the course addresses the key components of high performance houses: energy efficiency, durability, comfort and indoor air quality. A fundamental principal for this class is that green, sustainable houses are designed and built in accordance with the science and technology inherent to the systems approach, which emphasizes the interrelatedness of all of the building components and appliances.

Hsg 4461 Housing Development and Management
A-F only, 3 credit(s);
Instructor: Yust, Becky L
Description: This course focuses on 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 including public housing, cooperatives, manufactured or mobile homes, and community land trusts. This spring, we are partnering the Resilient Communities Project and North Saint Paul on live-work housing developments. You will produce a development proposal for a project to be sited in North Saint Paul.
Hsg 4465 Housing in a Global Perspective
A-F only, 3 credit(s);
Instructor: STAFF
Description: Housing and its relationship to global patterns of social/economic development are examined in a comparative framework. Emphasizes housing low-income populations in rapidly growing cities of developing counties with comparisons made to European and Eastern European countries. The purpose of this course is to develop a better understanding of the linkages among demographic changes, economic conditions, 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.
Style: 40% Lecture, 20% Discussion, 10% 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 Moodle site.

Hsg 5193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Ziebarth PhD, Ann
Description: Student may contact the instructor or department for information.

Hsg 5193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Yust, Becky L
Description: Student may contact the instructor or department for information.

Hsg 5193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Angell, William J
Description: Student may contact the instructor or department for information.

Hsg 5193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Crump, Jeffrey R
Description: Student may contact the instructor or department for information.

Hsg 5193 Directed Study in Housing Studies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Bruin, Marilyn J
Description: Student may contact the instructor or department for information.

Hsg 5463 Housing Policy
A-F only, 3 credit(s); [[2401 or DHA 2401], [2463 or DHA 2463]] or instr consent credit will not be granted if credit already received for: DHA 5463 Credit will not be granted if credit has been received for: PA 5261;
Instructor: Goetz, Edward Glenn

Hsg 5464 Understanding Housing: Assessment and Analysis
A-F only, 3 credit(s);
Instructor: Deegan, Jessica Ann
Description: This course is designed as an introduction to housing based research and analysis with a focus on geographic information systems and mapping. Housing research lends itself well to mapping and geographic analysis because of the fixed location of housing stock and the rich information that we can gather about the structure itself, the neighborhood or city in which it resides, and the inhabitants within. The course requires extensive use of computers in a weekly lab session. GIS analysis will be taught from the basic principals through data collection and map production. While no previous GIS experience is necessary, a familiarity with Windows and standard office software is highly recommended and will help you succeed in the course. The are three main goals in this course: 1) To develop a basic understanding of how to use GIS in the analysis of spatial data, especially that which pertains to housing; 2) To develop the ability to design
maps that effectively communicate the information that is presented; 3) To understand the characteristics and availability of
a variety of data sources, both housing specific and spatial data, and to utilize these data in the analysis of housing issues.
This course is targeted towards upper level undergraduates and graduate students in many disciplines.

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

**Grading:** 40% reports/papers, 30% quizzes, 30% laboratory evaluation.

**Hsg 8192 Readings in Housing Studies**
- A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
- **Instructor:** Ziebarth PhD, Ann
- **Description:** Student may contact the instructor or department for information.

**Hsg 8192 Readings in Housing Studies**
- 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.

**Hsg 8192 Readings in Housing Studies**
- 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.

**Hsg 8192 Readings in Housing Studies**
- A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
- **Instructor:** Crump, Jeffrey R
- **Description:** Student may contact the instructor or department for information.

**Hsg 8192 Readings in Housing Studies**
- A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
- **Instructor:** Bruin, Marilyn J
- **Description:** Student may contact the instructor or department for information.

**Hsg 8193 Directed Study**
- A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
- **Instructor:** Ziebarth PhD, Ann
- **Description:** Student may contact the instructor or department for information.

**Hsg 8193 Directed Study**
- 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.

**Hsg 8193 Directed Study**
- 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.

**Hsg 8193 Directed Study**
- A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
- **Instructor:** Crump, Jeffrey R
- **Description:** Student may contact the instructor or department for information.

**Hsg 8193 Directed Study**
- A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
- **Instructor:** Bruin, Marilyn J
- **Description:** Student may contact the instructor or department for information.

**Hsg 8222 Plan B Master’s Project**
- S-N only, 3 credit(s);
- **Instructor:** Ziebarth PhD, Ann
- **Description:** Student may contact the instructor or department for information.
Hsg 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: Yust, Becky L  
Description: Student may contact the instructor or department for information.

Hsg 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: Angell, William J  
Description: Student may contact the instructor or department for information.

Hsg 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: Crump, Jeffrey R  
Description: Student may contact the instructor or department for information.

Hsg 8222 Plan B Master's Project  
S-N only, 3 credit(s);  
Instructor: Bruin, Marilyn J  
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  
A-F only, 3 credit(s); ECON 1101, ECON 1102, PSY 1001  
Credit will not be granted if credit has been received for: HRIR 8021;  
Instructor: Bourgerie, Larry David  
Description: Student may contact the instructor or department for information.

HRIR 3021 Human Resource Management and Industrial Relations  
A-F only, 3 credit(s); ECON 1101, ECON 1102, PSY 1001  
Credit will not be granted if credit has been received for: HRIR 8021;  
Instructor: Falink, Amy  
Description: Student may contact the instructor or department for information.

HRIR 3031 Staffing and Selection: Strategic and Operational Concerns  
2 credit(s);  
Instructor: Dossinger, Karyn B  
Description: Student may contact the instructor or department for information.

HRIR 3032 Training and Development  
2 credit(s);  
Instructor: Dossinger, Karyn B  
Description: Student may contact the instructor or department for information.

HRIR 3071 Union Organizing and Labor Relations  
2 credit(s);  
Instructor: Bellman, Mary Jean  
Description: This course provides an introduction to the role of labor unions in the workplace and in society overall. We will examine the history of labor organizing in the U.S. and its influence on labor law and contemporary labor relations in this country. The class will also discuss union organizing tactics and current debates about union models. As demonstrated by the political events in Wisconsin earlier this year, this is a fascinating and important moment to study the role of unions. This course is the first half of a two course sequence on labor relations and collective bargaining, providing the foundations for HRIR 3072.  
Style: 35% Lecture, 10% Film/Video, 30% Discussion, 15% Small Group Activities, 10% Guest Speakers.

HRIR 3072 Collective Bargaining and Dispute Resolution  
2 credit(s);  
Instructor: Remington PhD, John
Description: Collective bargaining, contract administration, grievance processing, interest/rights arbitration, strikes and related policies and practices of employers, workers, and labor unions in dealing with worker representation in the private and public sectors.

HRIR 4100W HRIR Capstone: Personal and Organizational Leadership
A-F only, 4 credit(s); 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 5022 Managing Diversity
2 credit(s);
Instructor: Porter II, Louis
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);
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 5061 Public Policies on Work and Pay
3 credit(s); Credit will not be granted if credit has been received for: PA 5431;
Instructor: Kleiner, Morris M
Description:

HRIR 5062 Personnel Economics
2 credit(s);
Instructor: Budd, John W.
Description: Student may contact the instructor or department for information.

HRIR 6025 Leadership and Personal Development
A-F only, 2 credit(s);
Instructor: Hydrie, Yelena
Description: Student may contact the instructor or department for information.

HRIR 8000 Graduate Topics in Human Resources and Industrial Relations
2 credit(s), max credits 8, 8 completions allowed;
Instructor: Davis, Mike
Description: Student may contact the instructor or department for information.

HRIR 8011 Using Data and Metrics in Human Resources and Industrial Relations
4 credit(s);
Instructor: Sajjadiani, Sima
Description: Student may contact the instructor or department for information.

HRIR 8011 Using Data and Metrics in Human Resources and Industrial Relations
4 credit(s);
Instructor: Sojourner, Aaron
HRIR 8014 Human Resource Information Systems
2 credit(s);
Instructor: Lewis, Stephen Martin
Description: Student may contact the instructor or department for information.

HRIR 8023 International Human Resource Management
2 credit(s);
Instructor: Li, Min
Description: Student may contact the instructor or department for information.

HRIR 8034 Employee Development: Creating a Competitive Advantage
2 credit(s);
Instructor: Doepner-Hove, Stacy
Description: Student may contact the instructor or department for information.

HRIR 8044 Motivation and Work Behavior in Contemporary Organizations
2 credit(s);
Instructor: Bourgerie, Larry David
Description: Student may contact the instructor or department for information.

HRIR 8051 Compensation and Benefits
4 credit(s);
Instructor: Benson, Alan
Description: Student may contact the instructor or department for information.

HRIR 8053 Employer-Sponsored Employee Benefit Programs
2 credit(s);
Instructor: Leone, Robert
Description: Student may contact the instructor or department for information.

HRIR 8071 Labor Relations and Collective Bargaining
4 credit(s);
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);
Instructor: Benraouane, Sid Ahmed
Description: Student may contact the instructor or department for information.

HRIR 8141 Organizational Theory Foundations of High-Impact HRIR
A-F only, 2 credit(s);
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);
Instructor: Mironski, Jacek
Description: Student may contact the instructor or department for information.

HRIR 8802 Core Seminar: Organizational Behavior
4 credit(s);
Instructor: Duffy, Michelle Kathleen
Description: Student may contact the instructor or department for information.

HRIR 8820 Seminar: Special Topics in Work and Organizations Research
2 credit(s), max credits 12, 6 completions allowed;
HRIR 8820 Seminar: Special Topics in Work and Organizations Research  
2 credit(s), max credits 12, 6 completions allowed;  
Instructor: Leroy, Sophie  
Description: Student may contact the instructor or department for information.

HRIR 8825 Research Practicum/Workshop  
S-N only, 1 credit(s), max credits 4, 4 completions allowed;  
Instructor: Duffy, Michelle Kathleen  
Description: Student may contact the instructor or department for information.

Humanities 831 Heller Hall

Hum 1433 Introduction to Literature  
A-F only, 3 credit(s), max credits 6; Meets CLE req of Literature  
Instructor: Nichols, Marcia Dawn  
Description: American Identities What does it mean to be an American? How has ?American? been defined historically?  
How do people from different socioeconomic backgrounds experience ?Americaness? differently? Are some individuals more ?American? than others? Who decides what being an American means? Are people from countries in the Western Hemisphere other than the United States also ?American?? In this class, we will explore these and other questions as we read and analyze works of literature and film. In particular, we will examine different perspectives on identity in an American context. Moreover, using different critical prisms, we will explore issues of race, class, gender and sexuality as they relate to family and parenting. During the semester, students will be expected to participate in class discussion, complete in-class writings, keep a reading journal, give 2 oral presentations, complete 4-5 short writing assignments, and complete 1 group project. Laptops: Many assignments will be online, so you will need internet access. Please bring your laptops to class.  
Pen and paper: Please bring these to every class *Books can be purchased at the UMR bookstore or online.  
Grading: This information will be provided in the course syllabus.

Hum 1435 Introduction to History: Memoirs of Mass Violence  
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives  
Instructor: Ford, James Thomas  
Description: This course examines the economic, social, cultural, political, and medical impact of epidemics throughout history. Humanities 1435 offers an opportunity not only to investigate the progress of medical science in the face of deadly diseases, especially the heroic story of "microbe hunters" who search for cures via science, technology, and human ingenuity; it also reflects upon the decisions that individuals and societies made in coping with or minimizing disease. Sometimes these decisions involved moral dilemmas, but ultimately the battle between microbes and their human hosts is a tale of tragic loss of life, co-evolution, and scientific breakthroughs. Five modules or units form the course curriculum, each lasting two to three weeks and entailing a writing assignment, class or online discussion, and an online quiz. First, the class looks at the origin of epidemics in pre-historic times and the three pandemics of plague in history, most notably the Black Death of 14th-century Europe. Second, students examine the menace of smallpox, especially during the Spanish conquest of the New World and in colonial North America. Third, the class studies epidemics associated with the 19th and early 20th centuries such as cholera, yellow fever, and tuberculosis. Fourth, Humanities 1435 focuses on the Great Influenza of 1918, as well as its precursors and similar outbreaks of flu more recently. Fifth, pandemics of the contemporary world such as AIDS and SARS receive attention in the final weeks of the semester. In addition to the unit-specific course work, students deliver an oral presentation on a particular theme from the course in lieu of a final exam at the end of the semester. The course fulfills the Historical Perspectives Core and Global Perspectives Theme of UMR's Liberal Education. We root these epidemics in particular eras and cultural settings through written sources and audio-visual aids.

Hum 1435 Introduction to History: Memoirs of Mass Violence  
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives  
Instructor: Ford, James Thomas  
Description: This course fulfills the Historical Perspectives Core and Global Perspectives Theme of UMR's Liberal Education requirements by examining five cases of genocide in the Middle East, Europe, Africa, and Southeast Asia. The goal is to familiarize students with terms, concepts, and theories used in the study of genocide and to explore some disturbing yet essential questions about humanity. In the process, Humanities 1435 acquaints students with history as a discipline; the course assessments require students to grapple with the use and limitations of primary sources, the development of a methodology, and the formation of an interpretation. Though rooted in history proper, the course is interdisciplinary and makes use of tools and theories from disciplines such as sociology, social psychology, geography, literature, forensic archeology, primatology, and biological anthropology. The class will consider not only the views of perpetrators and victims, but the perspectives of "third party" groups. Ultimately, the purpose of analyzing and interpreting
these historical cases is to gain a degree of self-cognizance, a wider historical perspective, and a greater awareness of the world abroad. While the first week of instruction presents an overview of mass murder before the 20th century, the semester focuses on modern events: the Armenian Genocide (1915-1918), the Holocaust (1933-1945), the Cambodian Genocide (1975-1979), the Rwandan Genocide (1994), and Ethnic Cleansing and Genocide in the Former Yugoslavia (1992-1995). Each unit lasts two to three weeks and entails a short writing assignment, an online quiz, and in-class and forum discussions. Finally, students deliver an oral presentation on a particular theme from the course in lieu of a final exam at the end of the semester.

Grading: 30% reports/papers, 35% quizzes, 15% in-class presentation, 20% class participation.

Hum 1441 Introduction to Ethics
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Kostko, Aaron Thomas
Description: Student may contact the instructor or department for information.

Hum 3437 History and Philosophy of Science
A-F only, 3 credit(s); Meets CLE req of Historical Perspectives; meets CLE req of Technology and Society
Instructor: Mondy, Brian J
Description: Student may contact the instructor or department for information.

Hum 3471 Literatures of Diversity
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US
Instructor: Nichols, Marcia Dawn
Description: Gender is one of the basic forms of identity for most people. While many people might assume there are only two genders, man and woman, this is simply not true. Not only are there multiple genders in our own society, many different cultures around the world have recognized three or more genders. Confusion about gender often arises because people associate it with biological sex (which itself is more complicated that two as you will learn). However, gender is defined, by the WHO and most academics, as the social role a person performs?man or woman, girl or boy, or something else. Learning about the diversity of gender and sexuality is crucial for students in the health sciences. It is important for health scientists of all types to be aware of this diversity in order to ensure that access to health care and resources are available to everyone, regardless of gender or sexuality (which, sadly, is often not the case today.) In this class we will be reading and exploring different theories about gender and sexuality from a variety of authors, including scientists, philosophers, literary critics, sociologists and others. We will also be exploring how gender and sexuality is defined and depicted within cultural expressions such as works of literature, cartoons, song, etc. This class will be a discussion format, meaning that the burden of discussion is on you, the student. You will be expected to keep up with the readings and to engage in lively, but respectful discussion about that week?s reading. You will also be keeping a reading journal, giving one oral presentation, and writing a 7-10 page research paper.

Hum 4721 Special Topics in Humanities: Introduction to Symbolic Logic
A-F only, 3 credit(s), max credits 8;
Instructor: Brewer, Cameron David
Description: Student may contact the instructor or department for information.

Industrial Engineering  125 Mechanical Engineering

IE 3521 Statistics, Quality, and Reliability
4 credit(s);
Instructor: Cooper, William L.
Description: Student may contact the instructor or department for information.

IE 3521 Statistics, Quality, and Reliability
4 credit(s);
Instructor: Wang, Zizhao
Description: Student may contact the instructor or department for information.

IE 3521 Statistics, Quality, and Reliability
4 credit(s);
Instructor: He, Qie
Description: Student may contact the instructor or department for information.

IE 3522 Quality Engineering and Reliability
IE 3553 Simulation
A-F only, 4 credit(s); CSCI 1113, 3521, ISyE major
Credit will not be granted if credit has been received for: IE 5553;
Instructor: Leder, Kevin Zox
Description: Student may contact the instructor or department for information.

IE 4551 Production and Inventory Control
A-F only, 4 credit(s); 1101, 2021, 3011, 3521, ISyE major
Credit will not be granted if credit has been received for: IE 5551;
Instructor: Kong, Guangwen
Description: Student may contact the instructor or department for information.

IE 5113 Systems Engineering II
A-F only, 4 credit(s);
Instructor: Monson, Robert James
Description:

IE 5513 Engineering Safety
A-F only, 4 credit(s);
Instructor: Chaplin, Jonathan
Description: Occupational, health, and product safety. Standards, laws, and regulations. Hazards and their engineering control, including general principles, tools and machines, mechanics and structures, electrical safety, materials handling, fire safety, and chemicals. Human behavior and safety, procedures and training, warnings and instructions.
Style: 100% Lecture.
Grading: 22% mid exam, 31% final exam, 5% reports/papers, 10% quizzes, 22% written homework, 10% class participation.

IE 5522 Quality Engineering and Reliability
4 credit(s); [4521 or equiv], [upper div or grad student or CNR]
Credit will not be granted if credit has been received for: IE 3522;
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); Upper div or grad student
Credit will not be granted if credit has been received for: IE 4541;
Instructor: Miller, Lisa A
Description: Student may contact the instructor or department for information.

IE 5545 Decision Analysis
4 credit(s);
Instructor: Gupta, Diwakar
Description: This course surveys normative theories of decision making, with a particular emphasis on structuring of hard decision problems arising in a variety of engineering, business, and public policy contexts. Topics discussed include decision trees, expected utility theory, screening prospects by dominance, assessment of subjective probability, multiple attribute utility, analytic hierarchy process, value of information, multistage decision problems, benchmarking with data envelopment analysis, and basics of game theory. The course is structured around the following themes: 1. What makes decision problems hard? Structuring of decision problems via decision trees. 2. Shortcomings of some commonly used decision criterion. 3. Value functions and utility functions. Expected utility maximization principle. 4. Risk attitudes,

**Style:** 60% Lecture, 20% Discussion, 10% Small Group Activities, 10% Student Presentation. Discussion of assigned cases

**Grading:** 25% mid exam, 35% final exam, 10% reports/papers, 10% in-class presentation, 20% problem solving. Depending on student needs, the final exam may be replaced by a project.

**Exam Format:** Questions that must be answered in detail.

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**IE 5551 Production Planning and Inventory Control**

- **4 credit(s);** CNR or upper div or grad student
- **Credit will not be granted if credit has been received for:** IE 4551
- **Instructor:** Kong, Guangwen
- **Description:** Student may contact the instructor or department for information.

**IE 5553 Simulation**

- **4 credit(s);** Upper div or grad student; familiarity with probability/statistics recommended
- **Credit will not be granted if credit has been received for:** IE 3553
- **Instructor:** Leder, Kevin Zox
- **Description:** Student may contact the instructor or department for information.

**IE 8534 Advanced Topics in Operations Research**

- **4 credit(s), max credits 8;**
- **Instructor:** Zhang, Shuzhong
- **Description:** Student may contact the instructor or department for information.

**IE 8773 Graduate Seminar**

- **S-N only, 1 credit(s);**
- **Instructor:** Leder, Kevin Zox
- **Description:** Student may contact the instructor or department for information.

**IE 8774 Graduate Seminar**

- **S-N only, 1 credit(s);**
- **Instructor:** Leder, Kevin Zox
- **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;**
- **Instructor:** Benjaafar, Saif
- **Description:** Student may contact the instructor or department for information.

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**Information Networking**

**20 Ruttan Hall**

**INet 1001 Survey of Information Technology**

- **A-F only, 1 credit(s);**
- **Instructor:** Griep, Valarie
- **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 course introduces the student to the major classifications of the information technology landscape, and explores current business needs that technology can satisfy. Our key focus will be the business use of technology, referred to as Information Technology (IT). Through the lens of data, systems, and networks, we will examine many facets of IT, including degrees, certifications, trends, and career opportunities. We will emphasize the necessity for lifelong learning due to advances in technology and new ways to apply it to an ever changing business milieu.

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**Style:** Online
INet 4021 Network Programming
A-F only, 4 credit(s);
Instructor: Langanki, Mark D
Description: Network and distributed programming concepts and design using C, Java, and other higher level programming languages. Topics include sockets, TCP/ICP, RPC, streaming, CORBA, .NET, and SOAP. Labs use UNIX/Linux and MS Windows operating systems.

INet 4031 System Administration
A-F only, 4 credit(s);
Instructor: Dunn, Lawrence
Description: Integration of hardware, software and operational practice. Recap of machine architecture/organization. Complex technology issues, e.g. designing for scalability, configuring systems, architcting storage systems, monitoring/testing performance, executing recovery processes, managing software licenses. Lab based, Microsoft Server and Linux OS.

INet 4051 IT Infrastructure Operations
A-F only, 3 credit(s);
Instructor: Langanki, Mark D
Description: Network, server, and database operations. Infrastructure architecture, organizational structure, security, metrics, vendor relations, outsourcing, capacity planning, strategic planning, budgeting. Online case study.

INet 4061 Introduction to Business Intelligence and Data Warehousing
A-F only, 3 credit(s);
Instructor: Splett, Katherine Anna
Description: Design strategies for business analytics solutions: Business case studies, data mining and OLAP dimensional data models, warehouse architectures, ETL processes, physical design, and administration. Includes hands-on labs with SQL Server 2005.

INet 4082 IT Infrastructure Projects and Processes
A-F only, 2 credit(s);
Instructor: Griep, Valarie
Description: IT management overview of business partnerships, project management and lifecycles, methodologies, processes and organizational structures. Technology management, resource estimating, cost, quality, metrics and risk mitigation concepts. Emphasis on best practices. Project simulation assignments tie all concepts together.
Style: 20% Lecture, 10% Discussion, 50% Small Group Activities, 15% Student Presentation, 5% Guest Speakers.
Grading: 44% special projects, 20% quizzes, 20% written homework, 10% in-class presentation, 6% class participation. Will take 5 quizzes and keep the top 4 grades. Quiz format is short answer and problems.

INet 4083 System Analysis and Design
A-F only, 2 credit(s);
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.

INet 4165 Information Security: Technology, Ethics, Legality, and Standards
A-F only, 3 credit(s);
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;
Instructor: STAFF
Description: Independent project, topic arranged with and supervised by ITI faculty.

INet 4596 Internship
1-3 credit(s), max credits 6;
Instructor: Langanki, Mark D
IDSc 3001 Information Systems for Business Processes and Management  
A-F only, 3 credit(s);  
Instructor: Olson, Timothy Harold  
Description: Student may contact the instructor or department for information.

IDSc 3101 Introduction to Programming  
A-F only, 2 credit(s);  
Instructor: Sen, Soumya  
Description: Student may contact the instructor or department for information.

IDSc 3102 Intermediate Programming  
A-F only, 2 credit(s);  
Instructor: Sen, Soumya  
Description: Student may contact the instructor or department for information.

IDSc 3103 Data Modeling and Databases  
A-F only, 2 credit(s);  
Instructor: Umyarov, Akhmed  
Description: Student may contact the instructor or department for information.

IDSc 3104 Enterprise Systems  
A-F only, 2 credit(s);  
Instructor: Fiedler, Corrinne (Corrie)  
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);  
Instructor: Burtch, Gordon  
Description: Student may contact the instructor or department for information.

IDSc 4204W Information Services Management  
A-F only, 4 credit(s); Meets CLE req of Writing Intensive  
Instructor: Ray, Gautam  
Description: Student may contact the instructor or department for information.

IDSc 4301 Information Systems Capstone Course: A Live Case  
A-F only, 2 credit(s);  
Instructor: Chervany, Norman Lee  
Description: The first three weeks of the course will meet on Monday and Wednesday (9:55 - 11:35 AM) in CSOM 1-135. Each class period will involve applying the principles from the assigned reading to a IT-centered business case. The last four weeks of the course will involve student teams (5-6 persons) working on an IT-centered live /project case of the team's choosing. The case will require the students to develop a detailed recommendation (and supporting rationale) for an important strategically-needed IT application in the company with which they are working. The students will present their recommendation to the rest of the class in an all-day presentation session on Saturday, May 5. Attendance at this session is mandatory for all students. Questions: email Nchervan@umn.edu  
Style: The first three weeks of the course involve in-class discussions of cases. The last four weeks of the class involve student teams working on their "live case projects" and meeting once per week with the instructor.

IDSc 4401 Information Security  
A-F only, 2 credit(s);
IDSc 4421 Financial Information Systems and Technologies
A-F only, 2 credit(s);
Instructor: Wagle,Mihir Shivkumar
Description: Student may contact the instructor or department for information.

IDSc 4431 Advanced Database Design
A-F only, 2 credit(s);
Instructor: Evereest,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. .. Lecture with much interactive discussion. Lectures, and quiz and assignment reviews are recorded and available on the web. A special review session on Mondays starting at 4:30 pm for students who missed a live class lecture, want to ask questions, or dig more deeply into a topic. .. For more information, go to: http://www.tc.umn.edu/~geverest/DModCourse.html
Style: 70% Lecture, 20% Discussion, 10% Demonstration. Lecture with much interactive discussion. Lectures, and quiz and assignment reviews are recorded and available on the web. An optional review session on Mondays starting at 4:30 pm.
Grading: 20% final exam, 20% quizzes, 50% written homework, 10% class participation. A 15 min, 2 page quiz each week an assignment is not due plus a final exam. All are taken online.
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 4444 Business Analytics
A-F only, 2 credit(s);
Instructor: Burtch,Gordon
Description: Student may contact the instructor or department for information.

IDSc 4490 Information Systems Special Topics: Inter Enterprise Sys: Aligning Software w/Bus. Proc

Instructor: Schmidt,Matt
Description: Information security is recognized as one of the most prominent topics in modern information systems management. Security incidents can cause severe damage to corporations in forms of lost productivity, downtime, disclosed confidential data, and reputation implications. With attacks becoming faster and more sophisticated, it is important to understand what can be done to identify, prevent, sustain, and recover from those attacks. One particular aspect of information security that will be the major focus of this class is network security. The importance of network security puts pressure on information systems managers from two directions. On one hand, we are very dependent on internal (LAN) and external (Internet) networks, and losing network access may lead to catastrophic consequences. On another hand, a majority of attacks against information systems are carried out remotely by the means of the same networks that are used for legitimate communications. In this class, we will discuss common problems with basic solutions and techniques that make computer networks and data safer. We will look at the common practices followed by hackers and consider tools that are used for networks attacks as well as how to detect and stop those attacks. This class will be beneficial for you if you are preparing for a career in information systems and related areas, particularly with network management and support or IT audit and assurance. In addition, this class will cover a substantial portion of material common on the Security+ certification exam. This certification is beneficial for people interested in careers in Information Security area. The class will be held primarily in lecture mode with a significant amount of discussion on some tools along with in-class demonstrations. Students are encouraged to read about and bring examples of security incidents for class discussion and relate the class concepts to real-world issues.
Style: 55% Lecture, 20% Discussion, 20% Demonstration, 5% Guest Speakers.
Grading: 25% final exam, 35% special projects, 30% quizzes, 10% other evaluation. 3 quizzes at 10% each. 2 projects: one at 15%, and one at 20%
Exam Format: T/F w/ explanation Multiple choice Short Answer
IDSc 6040 Information Technology Management
A-F only, 2 credit(s);
Instructor: Fiedler, Corrinne (Corrie)
Description: Student may contact the instructor or department for information.

IDSc 6040 Information Technology Management
A-F only, 2 credit(s);
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: Sen, Soumya
Description: Student may contact the instructor or department for information.

IDSc 6423 Enterprise Systems
A-F only, 2 credit(s);
Instructor: Nemani, Rao R
Description: Student may contact the instructor or department for information.

IDSc 6442 E-Sourcing and E-Auctions
A-F only, 2 credit(s);
Instructor: Gupta, Alok
Description: Why do we have a variety of different companies offering mechanisms to buy same goods (e.g., eBay Auctions as compared to Amazon's posted price mechanism)? The counterparts in Business-to-Business (B2B) arena are even more diverse and mind boggling. The answer lies in the power that digitization of business processes has provided by being able to recognize, manipulate and optimize on a complex set of information to enhance profits and reduce costs. Digitized processes allow the participants, in any exchange environment, to control, facilitate, derive, obfuscate and augment information necessary to make better decisions. In addition, innovative mechanism such as online variants of various auction mechanisms and other mercantile processes provide a myriad of options to manipulate and control participant's incentives. The characteristics of these mechanisms and information control strategies are critical aspects that should be considered in the design of any business process, especially ones enabling transactions. Yet, little is understood about the effect of design choices on bottom-line metrics such as costs and revenue. This course introduces students to the insights from practice as well as cutting edge research to enable students to make better managerial design choices, both for the form of electronic exchange itself and its underlying processes. The course will cover fundamentals of auction and exchange mechanisms and provide an immersion experience via two projects and classroom experiments designed to provide experiential learning using live-case based interactive simulations. The students will be exposed to competitive market dynamics from the perspective of: Exchange participants, Bidders, and Auctioneers, as the case may be. Design of the interactive exchange mechanisms requires understanding of incentives and facilitating these incentives via electronic mechanisms requires controlling information while optimizing bottom-line metrics. While the underlying theory of exchange mechanism comes from the theory of auctions and negotiations, we will also consider online environment, availability of tools for competitive intelligence, and application of exchange environments in B2B environments to include context information in the design of such mechanisms. The immersion experience will be supplemented with HBS cases and other managerially focused contemporary reading material for contextual understanding of the concepts discussed in the class. The in-class instructional approach is approximately divided into 40% lectures and 60% case discussions and in-class exercises. A sample course outline is included at the URL specified below.

Style: 30% Lecture, 40% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Demonstration, 5% Guest Speakers.
Grading: 35% final exam, 40% special projects, 10% reflection paper, 15% class participation. Two group experiential learning projects involving in-class presentation. Grading will be equally based on project performance and presentation. One individual paper will be based on another experiential learning exercise.
Exam Format: The final Exam will be a mixture of multiple choice, short answer, essay type and case based problem solving questions.

IDSc 6444 Business Intelligence
A-F only, 2 credit(s);
Instructor: Adomavicius, Gediminas
Description: Course title: Business Intelligence The interaction between companies and their customers has changed...
dramatically in recent years. Customers and prospective customers want to interact with companies on their own terms, and a customer's continued business is no longer a guarantee. As a result, companies have realized that they need to understand their customers better and to be able to respond to various customer needs in a timely fashion. Business intelligence is the use of information technologies for gathering, storing, analyzing, and providing access to data to help managers make better decisions about their business and the way they serve customers. The innovative use of business intelligence technologies forms a powerful basis for competitive advantage in today's networked economy. The purpose of this course is to explain how data-driven business intelligence technologies, such as data mining, can help in many important business applications. This course begins by covering these topics at a basic fundamental level for those who have little or no experience with these technologies, and builds on this foundation to provide a comprehensive exploration of a variety of business intelligence technologies. This course assumes familiarity with Microsoft Excel. Important information about the required textbook: Galit Shmueli, Nitin R. Patel, Peter C. Bruce. Data Mining for Business Intelligence: Concepts, Techniques, and Applications in Microsoft Office Excel with XLMiner. 2nd edition. Wiley, 2010. ISBN: 978-0-470-52682-8. Note: This textbook comes with the XLMiner software (6-month license) that we will use in the class (you will be able to install it on your laptop and use it during the class and for homework assignments). In particular, each textbook has a license code for the software (and the software itself can be downloaded from the web). Thus, if you buy this textbook as a used book, you might not be able to use the software (since the original book owner might have used the software license up). For this reason, it is strongly advisable to buy the textbook as a new book, because you will definitely need the software for the class work.

**IDSc 6446 Advanced Business Intelligence**

A-F only, 2 credit(s);
Instructor: Adomavicius,Gediminas
Description: Student may contact the instructor or department for information.

**IDSc 6465 Global Sourcing of IT and IT Enabled Services**

A-F only, 4 credit(s);
Instructor: Bapna,Ravi
Description: Student may contact the instructor or department for information.

**IDSc 8003 Accounting and Information Systems**

A-F only, 4 credit(s);
Instructor: Schmidt,Matt
Description: Information technology (IT) has transformed the collection of financial data, the nature of financial reporting, the auditing business process, and the practice of financial and managerial accounting within the firm. This course provides the student with relevant background on the technology solution, managerial approaches, systems design and assessment methods, and managerial issues that are specific to this area. It also covers digital data sources, procedures related to 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 8541 Introduction to Economics of Information Systems**

A-F only, 2 credit(s);
Instructor: Bapna,Ravi
Description: Student may contact the instructor or department for information.

**IDSc 8721 Behavioral Decision Theory**

2 credit(s), max credits 4, 1 completion allowed;
Instructor: Curley,Shawn P
Description: How do we go about making decisions and the judgments on which they are based? What are some of the biases to which we are prone in making choices and judgments, and how do they arise? Can we improve upon our decision practices? Questions like these motivate and frame research in behavioral decision making. A large portion of the covered research can be conceptualized as arising from origins in normative decision theory. Normative decision theory represents decision making in terms of preferences over consequences and beliefs about possible events. In order to put this theory into practice, several descriptive components must come from the decision makers: their preferences, their judgments concerning the possible contingencies that might arise, and the variables/factors/actions that comprise the decision structure—the relevant elements for making the decision. Behavioral decision theory is interested in these descriptive components, and the cognitive processes by which they arise and affect choice. The course is a graduate level treatment of topics in decision theory from a behavioral perspective. The course will be primarily in seminar format. We will look at both traditional and current research in the field in an attempt to understand and integrate some of the major models and methodologies employed in the field of behavioral decision theory. The course covers models and issues of
preference, judgment, and uncertainty. We will begin by going through the following text: Yates JF. (1990). Judgment and decision making. Englewood Cliffs, NJ: Prentice Hall. Beginning with Week 3 of the course, we will use our class time to discuss original journal articles on selected topics. As an example, you can view the course schedule from the last time the course was taught linked from my home page: http://umn.edu/~curley. Auditors are welcome; please contact the instructor with any questions about the course.

Style: 5% Lecture, 95% Discussion.
Grading: 50% reports/papers, 10% written homework, 40% class participation.

Infrastructure Systems Management Engineering  290 McNamara Center

ISME 5104 Construction Estimating
A-F only, 2 credit(s);
Instructor: Hilger, A Peter
Description: Student may contact the instructor or department for information.

ISME 5112 Infrastructure Systems Engineering Management
A-F only, 2 credit(s);
Instructor: Kern, Philip M
Description: Student may contact the instructor or department for information.

ISME 5201 Pavement Management Maintenance and Rehabilitation
A-F only, 2 credit(s);
Instructor: Marasteanu, Mihai
Description: Student may contact the instructor or department for information.

ISME 5202 Traffic Engineering Management
A-F only, 2 credit(s);
Instructor: Preston, Howard Denis
Description: Student may contact the instructor or department for information.

ISME 5301 Bridge Management Maintenance and Rehabilitation
A-F only, 2 credit(s);
Instructor: Olson, Steven Arthur
Description: Student may contact the instructor or department for information.

ISME 5302 Critical Infrastructure Security and Protection
A-F only, 2 credit(s);
Instructor: Amin, Massoud
Description: Student may contact the instructor or department for information.

ISME 5402 Storm Water Management
A-F only, 2 credit(s), max credits 10, 1 completion allowed;
Instructor: Willenbring, Peter Rich
Description: Student may contact the instructor or department for information.

ISME 5501 Geographic Information Systems
A-F only, 2 credit(s);
Instructor: Henry, Brad
Description: Student may contact the instructor or department for information.

ISME 8105 Capstone Project
A-F only, 1-2 credit(s), max credits 3;
Instructor: Voller, Vaughan Richard
Description: Student may contact the instructor or department for information.
Innovation Studies

IS 5002 Final Project for Innovation Studies
A-F only, 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Harkins, Arthur M
Description: Student may contact the instructor or department for information.

IS 5100 Innovation Studies Seminar
A-F only, 3 credit(s), max credits 24, 24 completions allowed;
Instructor: Tomsyck, John Peter
Description: This course supports the development of a meaningful, sustainable professional future, a unique Brand You. Personal development stories with focused preferences help shape the design of each student's own professional future. Each student develops a personalized professional design map, cumulatively evolved through weekly assignments. Professional self-development is bolstered by helpful suggestions from faculty. Shared experiences and suggestions provided by fellow students constitute a major resource throughout seminar.

Insurance and Risk Management

Ins 4100 Corporate Risk Management
2 credit(s);
Instructor: Whitman, Andrew Franklin
Description: Theory applied to Enterprise Risk Management (ERM) practice. Guest industry practitioners demonstrate as students learn how to apply the risk management process of identifying, assessing, controlling, financing and monitoring risks from all sources to increase value to all stakeholders. Risk managing cash flow, human resources, intellectual and tangible property, liability, and worker's compensation by application of risk control and risk financing tools, including insurance. Students learn to serve as consultants in teams presenting the risk management process to a live client company.

Ins 4200 Insurance Theory and Practice
2 credit(s);
Instructor: Whitman, Andrew Franklin
Description: An introduction to insurance theory and practice and to careers of actuary, attorney, risk manager, insurance agent/broker/consultant, underwriter, and loss adjuster. Types of insurance include motor vehicle compensation, liability, workers' compensation, and property insurance. Insurance functions of pricing, marketing, underwriting, and claims administration are explained with concepts of adverse selection and moral hazard effects. These functions are also performed in private and governmental self insurance programs. Industry practitioners and attorneys are guest lectures. Several class sessions are approved each term for attorney continuing education credit (CLE). Life and health insurance topics are covered in Ins 4101 & Ins 4201.

Integrated Behavioral Health

IBH 6011 Foundations in Differential Diagnosis
A-F only, 3 credit(s);
Instructor: Kammer-Hodge, Heidi Elizabeth
Description: Student may contact the instructor or department for information.

IBH 6021 Methods and Models III: Synthesis Seminar in Client Centered Care
IBH 6041 Prolonged Exposure Therapy for PTSD
A-F only, 2 credit(s);
Instructor: Sutherland PhD,LP,R John
Description: Student may contact the instructor or department for information.

IBH 6051 Advanced Group Practice
A-F only, 2 credit(s);
Instructor: Sutherland PhD,LP,R John
Description: Trends/developments in group counseling. Evidence-based group processes/techniques for individuals with chronic/persistent mental illness, substance use disorders, co-occurring disorders. Field placement component.

IBH 6061 Applied Advanced Diagnostics I
A-F only, 2 credit(s), max credits 3, 1 completion allowed;
Instructor: Frenz, David Arthur
Description: Diagnosing individuals with chronic/persistent mental health disorders, personality disorders, and associated substance use disorders. Case studies, field placement with multidisciplinary team.

IBH 6071 Advanced Professional Issues
A-F only, 3 credit(s);
Instructor: Boisen, Laura Sue
Description: Student may contact the instructor or department for information.

IBH 6071 Advanced Professional Issues
A-F only, 3 credit(s);
Instructor: Wamsley, Debra S
Description: Developing a personal ethical decision model that incorporates five moral principles, ACA/NAADAC codes of ethics and statutes/regulations that apply to mental health/substance abuse counseling. Case studies.

IBH 6081 Human Lifespan Development and Behavioral Health
A-F only, 2 credit(s);
Instructor: Wamsley, Debra S
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. Human development across lifespan. Implications for direct clinical practice. Theories of human development. Co-occurring mental health/substance use disorders. Normative changes, individual differences, typical/atypical patterns of development.
Style: Online
Grading: See attached syllabus

IBH 6091 Intersection of Career and Mental Health
A-F only, 2 credit(s);
Instructor: Rohovit, Julie L
Description: Student may contact the instructor or department for information.

IBH 6101 Family Dynamics and Therapy
A-F only, 3 credit(s);
Instructor: Becher-Ingwalson, Ann M
Description: Family life cycle, communication patterns, family dynamics, multi-generational patterns, systems theory/interventions for appropriate use of family resources to enhance intervention, treatment, family/individual functioning and maintenance processes. Working with families with mental illness, substance use and co-occurring disorders.

IBH 6227 Supervision Models and Methods in Integrated Behavioral Health
A-F only, 3 credit(s);
Instructor: Becher-Ingwalson, Ann 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.
IBH 6229 Crisis Assessment and Management  
A-F only, 2 credit(s);  
Instructor: Clubb, Joseph Raymond  
Description: Student may contact the instructor or department for information.

IBH 6231 Management of Eating Disorders  
3 credit(s);  
Instructor: Lampert, Jillian Garnet  
Description: Student may contact the instructor or department for information.

IBH 6910 Topics in Integrated Behavioral Health: Dance/Movement Therapy Theory and Skills  
A-F only, 2 credit(s), max credits 32, 8 completions allowed;  
Instructor: Nordstrom-Loeb, Barbara E  
Description: Student may contact the instructor or department for information.

IBH 6996 Internship for Integrated Behavioral Health  
S-N only, 1-8 credit(s), max credits 8, 4 completions allowed;  
Instructor: Becher-Ingwalson, Ann 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. Culminating field experience of MPS-IBH. On-site placement in public or private mental health, addictions/integrated treatment setting. Bridge between training/professionalism.  
Style: Online  
Grading: See attached syllabus

Inter-College Program 20 Ruttan Hall

ICP 3093 Directed Study  
A-F only, 1-15 credit(s), max credits 15, 1 completion allowed;  
Instructor: STAFF  
Description:

ICP 3101W Inter-College Program Proposal Development  
A-F only, 2 credit(s); Meets CLE req of Writing Intensive  
Instructor: Burger Sanchez, Amy  
Description: Student may contact the instructor or department for information.

ICP 3201 Career and Internship Preparation  
A-F only, 1 credit(s);  
Instructor: Kubak, Maggie  
Description: Student may contact the instructor or department for information.

ICP 3201 Career and Internship Preparation  
A-F only, 1 credit(s);  
Instructor: Newberg, Sara Nagel  
Description: Student may contact the instructor or department for information.

ICP 3201 Career and Internship Preparation  
A-F only, 1 credit(s);  
Instructor: Hanson, Matthew R  
Description: Student may contact the instructor or department for information.

ICP 3201 Career and Internship Preparation  
A-F only, 1 credit(s);  
Instructor: Giefer, Christine M  
Description: This course is designed to introduce students to the career development journey. By taking a proactive
approach to identifying and achieving their career goals, students will gain confidence in the job-search world and be able to position themselves to succeed. This course will focus on: -Self-assessment -Skills, values and goal setting -Job searching techniques -Resume writing, cover letters, portfolios and other job-search tools -Networking -Interviewing -Professionlism

### Interdepartmental Study  411 (STSS) Science Teaching Student Services

**ID 1201 Major and Career Exploration**
2 credit(s);
**Instructor:** Bolte, Mia M  
**Description:** Student may contact the instructor or department for information.

**ID 1201 Major and Career Exploration**
2 credit(s);
**Instructor:** Buckley, Christopher Gene  
**Description:** Student may contact the instructor or department for information.

**ID 1201 Major and Career Exploration**
2 credit(s);
**Instructor:** Halverson, Joyce A  
**Description:** Student may contact the instructor or department for information.

**ID 3201 Career Planning**
2 credit(s);
**Instructor:** Untiedt 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 each week.

**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 each week.

**ID 3205 Law School Exploration**
2 credit(s);
**Instructor:** Reichelt, Erin Kristine  
**Description:** Student may contact the instructor or department for information.

**ID 3208 Internship Reflection: Making Meaning of Your Experience**
1 credit(s);
**Instructor:** Schmidt Whitney, Angie  
**Description:** Student may contact the instructor or department for information.

**ID 3571 HECUA: Inequality in America - Contested Theories of Poverty, Inequality, and Social Change**
4 credit(s); Meets CLE req of Social Sciences
**Instructor:** Holliday, David Wallace  
**Description:** Student may contact the instructor or department for information.

**ID 3572 HECUA: Inequality in America - Social Policy and Anti-Poverty Strategies in Theory and Practice**
4 credit(s); Meets CLE req of Diversity and Soc Justice US
**Instructor:** Holliday, David Wallace
Description: In the Metro Urban Studies Term students actively delve into major challenges of our time: poverty, inequality and social change. Connecting these issues is at the core of the program. Instead of just learning about these problems in the classroom, students actively explore solutions and become engaged in organization committed to social transformation. This program focuses on learning the basic of organizing in communities and workplaces, how to persuade others to become critically engaged, and how to be an effective advocate for issues and people. Concurrent enrollment in ID 3571 and ID 3573 is required. Contact the Off-Campus Study Programs Office (612-626-2044 or 240 Appleby) for more information.

ID 3573 HECUA: Inequality in America Internship Seminar
8 credit(s);Meets CLE req of Civic Life and Ethics
Instructor: Holliday,David Wallace
Description: Student may contact the instructor or department for information.

ID 3582 HECUA: Arts Praxis - Social Justice Theory and Practice in the Field
4 credit(s);Meets CLE req of Diversity and Soc Justice US
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 Off-Campus Study Programs Office (612-626-2044 or 240 Appleby) for more information.

ID 3583 HECUA: Arts for Social Change Internship Seminar
8 credit(s);Meets CLE req of Civic Life and Ethics
Instructor: Holliday,David Wallace
Description: Student may contact the instructor or department for information.

ID 3901 Scholars Program Capstone Seminar
A-F only, 1 credit(s);
Instructor: Siems McKay,Monica
Description: Student may contact the instructor or department for information.

ID 3901 Scholars Program Capstone Seminar
A-F only, 1 credit(s);
Instructor: Peacock,Katie
Description: Student may contact the instructor or department for information.

ID 3901 Scholars Program Capstone Seminar
A-F only, 1 credit(s);
Instructor: Hirt,Laurel Elizabeth
Description: Student may contact the instructor or department for information.

ID 3901 Scholars Program Capstone Seminar
A-F only, 1 credit(s);
Instructor: Dammer Hess,Laura Ann
Description: Student may contact the instructor or department for information.

ID 3993 Directed Study
1-4 credit(s), max credits 8, 8 completions allowed;
Instructor: Hirt,Laurel Elizabeth
Description: Student may contact the instructor or department for information.

ID 3993 Directed Study
1-4 credit(s), max credits 8, 8 completions allowed;
Instructor: Spangle,Paul J
Description: Student may contact the instructor or department for information.
ID 3993 Directed Study
1-4 credit(s), max credits 8, 8 completions allowed;
Instructor: Timmins, Paul
Description: Student may contact the instructor or department for information.

Interior Design  240 McNeal Hall

IDes 1602 Interior Design Studio II
A-F only, 4 credit(s);
Instructor: STAFF
Description: This course continues the development of design theory, design process, and communication skills introduced in IDES 1601 ? Interior Design Studio I. Some concepts and theories will go into greater depth than 1601 and others will be introduced for the first time. Color use in interiors is introduced, concept development is emphasized through the inclusion of the elements and principles of design, three-dimensional design is explored through model making, and drafting skills are expanded and further refined. Projects are more comprehensive and require students to follow the design process, complete design programs, and execute both construction documents and presentation visuals such as material and finish boards. Informal and formal critiques are very important for development of design knowledge and these skills will also be stressed. This is the final interior design studio course taken by the student prior to Portfolio Review.
Style: 25% Lecture, 75% Studio.
Grading: 90% special projects, 10% quizzes.

IDes 2196 Work Experience in Interior Design
S-N only, 1-4 credit(s), max credits 8;
Instructor: Hadjiyanni, Tasoulla
Description: Student may contact the instructor or department for information.

IDes 2196 Work Experience in Interior Design
S-N only, 1-4 credit(s), max credits 8;
Instructor: Martin, Caren Samter
Description: Student may contact the instructor or department for information.

IDes 2196 Work Experience in Interior Design
S-N only, 1-4 credit(s), max credits 8;
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

IDes 2196 Work Experience in Interior Design
S-N only, 1-4 credit(s), max credits 8;
Instructor: Zollinger, Stephanie Watson
Description: Student may contact the instructor or department for information.

IDes 2196 Work Experience in Interior Design
S-N only, 1-4 credit(s), max credits 8;
Instructor: Asojo, Abimbola
Description: Student may contact the instructor or department for information.

IDes 2604 Interior Design Studio IV
A-F only, 4 credit(s);
Instructor: STAFF
Description: Description: This course focuses on how buildings and systems are put together relative to interior design. Emphasis is on the relationship and interaction between architecture and interior design, building construction, building systems, codes, construction detailing, and site considerations. Studio projects include small-scale design problem-solving. Class time: 5% Lecture, 10% Discussion, 85% Design studio, critique and the design process. Workload: Written, verbal, and visual presentations of designs. Grade: 15% in-class presentation, 5% class participation, 80% design projects.

IDes 2612 Interior Materials and Specifications
A-F only, 4 credit(s); Meets CLE req of Environment
Instructor: STAFF
Description: Environmental issues from the global perspective to their application in design for interior spaces. Resources and materials used in interiors and their functional and aesthetic relationship to interior design. This course will explore the
impact of codes, environmental issues, legislation, and social awareness on designing for life safety, health, universal design, and sustainability.

**IDes 2622 Computer Applications I**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** Description: Students are introduced to the use of current computer-aided design software applications for construction drawings, two- and three-dimensional representation, and modeling for interior design problem-solving and presentation. Class time: 50% lecture, 50% computer-aided drawing. Workload: Visual and verbal presentations of designs. Grade: 10% class participation, 90% exercises and projects

**IDes 3162 History of Interiors and Furnishings: 1750 to Present**  
A-F only, 4 credit(s); Meets CLE req of Historical Perspectives  
**Instructor:** Hadjiyanni, Tasoulla  
**Description:** This course explores the evolution in the design and meaning of furniture and domestic interiors in Europe and America between 1750 and the present day. Fundamental to the course’s approach is the uncovering of the artistic, historical, social, environmental, economic, political, cultural, religious, and technological forces behind these designs. Armed with an understanding of the world’s interconnectedness and the multiplicity of factors that impact the development of furniture and interiors, students are challenged to consider how they can be responsible designers and create designs that respond to current forces and social concerns.  
**Style:** 80% Lecture, presentations  
**Grading:** 60% mid exam, 15% final exam, 10% reports/papers, 15% special projects.  
**Exam Format:** identification of images

**IDes 3605 Interior Design Studio V**  
A-F only, 4 credit(s);  
**Instructor:** STAFF  
**Description:** Advanced interior design projects dealing with small to medium scale spaces. Emphasizes special-needs populations.  
**Style:** 5% Lecture, 10% Discussion, design problem solving  
**Grading:** 5% in-class presentation, 5% class participation, 90% other evaluation. studio projects

**IDes 4160H Honors Capstone Project**  
A-F only, 2 credit(s), max credits 4;  
**Instructor:** Hadjiyanni, Tasoulla  
**Description:** Student may contact the instructor or department for information.

**IDes 4160H Honors Capstone Project**  
A-F only, 2 credit(s), max credits 4;  
**Instructor:** Martin, Caren Samter  
**Description:** Student may contact the instructor or department for information.

**IDes 4160H Honors Capstone Project**  
A-F only, 2 credit(s), max credits 4;  
**Instructor:** Guerin, Denise A  
**Description:** Student may contact the instructor or department for information.

**IDes 4160H Honors Capstone Project**  
A-F only, 2 credit(s), max credits 4;  
**Instructor:** Zollinger, Stephanie Watson  
**Description:** Student may contact the instructor or department for information.

**IDes 4160H Honors Capstone Project**  
A-F only, 2 credit(s), max credits 4;  
**Instructor:** Asojo, Abimbola  
**Description:** Student may contact the instructor or department for information.

**IDes 4193 Directed Study in Interior Design**  
A-F only, 1-4 credit(s), max credits 8;  
**Instructor:** Hadiyanni, Tasoulla  
**Description:** Student may contact the instructor or department for information.
IDes 4193 Directed Study in Interior Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Martin, Caren Samter
Description: Student may contact the instructor or department for information.

IDes 4193 Directed Study in Interior Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

IDes 4193 Directed Study in Interior Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Zollinger, Stephanie Watson
Description: Student may contact the instructor or department for information.

IDes 4193 Directed Study in Interior Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Asojo, Abimbola
Description: Student may contact the instructor or department for information.

IDes 4196 Internship in Interior Design
S-N only, 1 credit(s);
Instructor: Hadjiyanni, Tasoulla
Description: Student may contact the instructor or department for information.

IDes 4196 Internship in Interior Design
S-N only, 1 credit(s);
Instructor: Martin, Caren Samter
Description: Student may contact the instructor or department for information.

IDes 4196 Internship in Interior Design
S-N only, 1 credit(s);
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

IDes 4196 Internship in Interior Design
S-N only, 1 credit(s);
Instructor: Zollinger, Stephanie Watson
Description: Student may contact the instructor or department for information.

IDes 4196 Internship in Interior Design
S-N only, 1 credit(s);
Instructor: Asojo, Abimbola
Description: Student may contact the instructor or department for information.

IDes 4608 Interior Design Thesis
A-F only, 4 credit(s);
Instructor: Guerin, Denise A
Description: Interior designers are educated to protect people's health, safety, and welfare by designing the interiors of the spaces in which people work, live, and play. This course is the capstone or thesis design project for the professional interior design major. Students completed a comprehensive evidence-based design program during the preceding semester in IDes 4615W Interior Design Research. This semester, each student completes an individual design solution that includes concept development, schematic design, design development, construction documents, and visual presentation. Students work with design critics throughout the semester, complete a code review, and present verbally and visually to the design community. The course ends in the senior design exhibit of their work. Often the building type addressed by the thesis is healthcare; generally the project is a real project for the university or non-profit agencies where opportunities exist for students' solutions to make a difference.
Style: 5% Lecture, 10% Discussion, 5% Small Group Activities, 10% Student Presentation, 60% Studio, 10% Guest Speakers.
Grading: 60% special projects, 10% in-class presentation, 30% problem solving.

**Grading: 60% special projects, 10% in-class presentation, 30% problem solving.**

**IDes 4608 Interior Design Thesis**  
A-F only, 4 credit(s);  
**Instructor:** English, Michael  
**Description:** Student may contact the instructor or department for information.

**IDes 4616 Sustainable Commercial Interior Design**  
A-F only, 3 credit(s);  
**Instructor:** Trzpuc, Stefnee Jayne  
**Description:** The course focuses on preparing interior designers and architects to integrate sustainable design into their design practices by working with LEED for Interior Design and Construction Standards. LEED AP faculty will assist students by discussing the intent, requirements, submittals, and potential technologies and strategies to achieve LEED ID+C standards in existing, new construction, or tenant improvement projects. Students will complete a design project and submittal materials using LEED ID+C guidelines.

**IDes 5193 Directed Study in Interior Design**  
A-F only, 1-4 credit(s), max credits 8;  
**Instructor:** Hadjiyanni, Tasoulla  
**Description:** Student may contact the instructor or department for information.

**IDes 5193 Directed Study in Interior Design**  
A-F only, 1-4 credit(s), max credits 8;  
**Instructor:** Martin, Caren Samter  
**Description:** Student may contact the instructor or department for information.

**IDes 5193 Directed Study in Interior Design**  
A-F only, 1-4 credit(s), max credits 8;  
**Instructor:** Guerin, Denise A  
**Description:** Student may contact the instructor or department for information.

**IDes 5193 Directed Study in Interior Design**  
A-F only, 1-4 credit(s), max credits 8;  
**Instructor:** Zollinger, Stephanie Watson  
**Description:** Student may contact the instructor or department for information.

**IDes 5193 Directed Study in Interior Design**  
A-F only, 1-4 credit(s), max credits 8;  
**Instructor:** Asojo, Abimbola  
**Description:** Student may contact the instructor or department for information.

**IDes 8192 Readings in Interior Design**  
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.

**IDes 8192 Readings in Interior Design**  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
**Instructor:** Martin, Caren Samter  
**Description:** Student may contact the instructor or department for information.

**IDes 8192 Readings in Interior Design**  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
**Instructor:** Guerin, Denise A  
**Description:** Student may contact the instructor or department for information.

**IDes 8192 Readings in Interior Design**  
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;  
**Instructor:** Zollinger, Stephanie Watson  
**Description:** Student may contact the instructor or department for information.
IDes 8192 Readings in Interior Design
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Asojo, Abimbola
Description: Student may contact the instructor or department for information.

IDes 8193 Directed Study
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.

IDes 8193 Directed Study
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Martin, Caren Samter
Description: Student may contact the instructor or department for information.

IDes 8193 Directed Study
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

IDes 8193 Directed Study
A-F only, 1-3 credit(s), max credits 8, 8 completions allowed;
Instructor: Asojo, Abimbola
Description: Student may contact the instructor or department for information.

IDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Hadjiyanni, Tasoulla
Description: Student may contact the instructor or department for information.

IDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Martin, Caren Samter
Description: Student may contact the instructor or department for information.

IDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Guerin, Denise A
Description: Student may contact the instructor or department for information.

IDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Zollinger, Stephanie Watson
Description: Student may contact the instructor or department for information.

IDes 8222 Plan B Master's Project
S-N only, 3 credit(s);
Instructor: Asojo, Abimbola
Description: Student may contact the instructor or department for information.
IBus 3010 Introduction to Global Entrepreneurship in China
A-F only, 4 credit(s), max credits 12, 3 completions allowed;
Instructor: Spruth, Steve
Description: Student may contact the instructor or department for information.

IBus 3021 Human Resources Management in Australia
4 credit(s);
Instructor: Doepner-Hove, Stacy
Description: Student may contact the instructor or department for information.

IBus 3033W Business Communication in India
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: MGMT 3033W; Meets CLE req of Writing Intensive
Instructor: Littlefield, Holly A
Description: Student may contact the instructor or department for information.

IBus 3080 Sustainability and Corporate Social Responsibility in Costa Rica
A-F only, 4 credit(s);
Instructor: Strand, Robert Gavin
Description: Student may contact the instructor or department for information.

IBus 4010 Management of Technology in the Middle East
A-F only, 3 credit(s);
Instructor: Marshak, Marvin L
Description: Student may contact the instructor or department for information.

IBus 4082W Brand Management
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Lipe, Jay
Description: Student may contact the instructor or department for information.

IBus 5170 Global Business Practicum in Northern China
A-F only, 4 credit(s);
Instructor: Cui, Tony Haitao
Description: Student may contact the instructor or department for information.

IBus 6316 Sustainability & Cooperative Advantage in Scandinavia
A-F only, 4 credit(s);
Instructor: Strand, Robert Gavin
Description: Student may contact the instructor or department for information.

IBus 6400 Carlson MBA Global Discovery
A-F only, 1-3 credit(s), max credits 3;
Instructor: Madzar, Svjetlana
Description: Student may contact the instructor or department for information.

IBus 6400 Carlson MBA Global Discovery
A-F only, 1-3 credit(s), max credits 3;
Instructor: Benraouane, Sid Ahmed
Description: Student may contact the instructor or department for information.

IBus 6400 Carlson MBA Global Discovery
A-F only, 1-3 credit(s), max credits 3;
Instructor: Li, William
Description: Student may contact the instructor or department for information.

Interpersonal Relationships Research 104 Child Development

IRel 8360 Seminar: Topics in Interpersonal Relationships Research
1-3 credit(s), max credits 6, 3 completions allowed;
Instructor: Simpson, Jeffry A
Description: Student may contact the instructor or department for information.

## Introduced Species and Genotypes

### ISG 5020 Risk Analysis Modeling for Introduced Species and Genotypes
- **S-N only, 1 credit(s);**
- **Instructor:** Andow, David
- **Description:** Student may contact the instructor or department for information.

## Italian

### 314 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. 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);** 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; essay; short answer

### Ital 1003 Intermediate Italian
- **5 credit(s);** 1001-1002 Credit will not be granted if credit has been received for: ITAL 4003;
- **Instructor:** STAFF
- **Description:** Italian 1003 is the third semester course of Italian language and culture. (Students must have completed the equivalent of a year of university level Italian instruction before taking this course.) Students concentrate on mastering elements of grammar and on increasing their active vocabularies. They continue to read, write, speak and listen to current Italian. Each student chooses a topic for a cultural presentation, which is both written and spoken. Italian films are integrated into the program. An integral part of this course is reading the text, Pinocchio. The grade is based on daily participation and homework performance, frequent quizzes, oral exams, compositions, cultural presentation and the final exam. At the end of the third semester, students who pass with a grade of "C-" or higher are ready to move on to Italian 1004 or to study in Italy.
- **Grading:** 10% final exam, 70% quizzes, 5% class participation, 15% other evaluation. oral exam
- **Exam Format:** Short answer; fill in the blank, true/false

### Ital 1004 Intermediate Italian
- **5 credit(s);** 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);**
- **Instructor:** STAFF
- **Description:** Italian 3015 is a reading-, writing-, and speaking-intensive course. Through a variety of Italian texts and related readings, students will analyze the material both textually and grammatically, exploring their social, historical and cultural relevance. This course is recommended for students who have mastered basic Italian grammar and received a grade of B or higher in preceding Italian coursework.
- **Exam Format:** Active participation in class discussions, written essays, comprehensive exams, in-class presentations

**Ital 3201 Reading Italian Texts: Poetics, Rhetoric, Theory**
- **3 credit(s), max credits 9, 3 completions allowed; 3015 Credit will not be granted if credit has been received for:** ITAL 5201;
- **Instructor:** Fabbrì, Lorenzo
- **Description:** CARVING THE NATION: PINOCCHIO AND THE ITALIAN LITERARY CANON The Disney cartoon of "Pinocchio" immortalized the tale of the little puppet who dreams of becoming a real boy. What about the Italian literary origins of this story? When Carlo Collodi wrote "Adventures of Pinocchio" in 1881, he surely had no idea of the global impact his "burattino" would have, the tale emerging as the most sold book after the Bible and the Koran. In this course, we will explore Collodi's masterpiece and investigate the reasons behind Pinocchio's timeless charm. What is exactly being carved in this book? How does the tale of Pinocchio's coming to life relate to the concurrent birth of the Italian nation? What is, ultimately, the moral of this adventurous story? While our focus this semester will be Pinocchio, we will also situate the novel against the backdrop of Italy's literary canon, by reading an anthology of texts ranging from the Middle Ages to the 21st century. (Taught in Italian.)

**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 3502 Making of Modern Italy: From the Enlightenment to the Present.**
- **3 credit(s), max credits 12, 4 completions allowed; 3015 Credit will not be granted if credit has been received for:** ITAL 5502;
- **Instructor:** Fabbrì, Lorenzo
- **Description:** ITALIAN REMAKES, ITALIANS REMADE. "Italy is made, now it is time to make the Italians." It is since the conclusion of the unification process that this mantra has been haunting Italian political and cultural life. Are Italians doomed to search incessantly for a true national style? Will they always be in the need of an extreme makeover? Thanks to novels by Pirandello, Pavese, and Laklous, and films by Visconti, De Sica, Rossellini, Bertolucci, and Antonioni, this course will scrutinize the role that literature and cinema played in Italy's quest for its own identity. Class discussion will move along two axes: it will investigate the arts as a device for regulating the life of the nation, and it will analyze literary and cinematic texts as a means to negotiate alternative forms of national belonging. By using Italy as a case study, this course will illuminate the relation between aesthetics and politics. (Taught in Italian.)

**Ital 4001 Beginning Italian**
- **2 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for:** ITAL 1001;
- **Instructor:** Bray, Laura Smolizza
- **Description:** Student may contact the instructor or department for information.

**Ital 4002 Beginning Italian**
- **2 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for:** ITAL 1002;
- **Instructor:** Dradi, Carlotta
- **Description:** Student may contact the instructor or department for information.
Ital 4003 Intermediate Italian
2 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: ITAL 1003;
Instructor: Lavecchia, Ornella
Description: Student may contact the instructor or department for information.

Ital 4004 Intermediate Italian
2 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: ITAL 1004;
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;
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 5502 Making of Modern Italy: From the Enlightenment to the Present
3 credit(s), max credits 12, 4 completions allowed; grad student or instr consent Credit will not be granted if credit has been received for: ITAL 3502;
Instructor: Fabbri, Lorenzo
Description: ITALIAN REMAKES, ITALIANS REMADE. "Italy is made, now it is time to make the Italians." It is since the conclusion of the unification process that this mantra has been haunting Italian political and cultural life. Are Italians doomed to search incessantly for a true national style? Will they always be in the need of an extreme makeover? Thanks to novels by Pirandello, Pavese, and Lakhous, and films by Visconti, De Sica, Rossellini, Bertolucci, and Antonioni, this course will scrutinize the role that literature and cinema played in Italy's quest for its own identity. Class discussion will move along two axes: it will investigate the arts as a device for regulating the life of the nation, and it will analyze literary and cinematic texts as a means to negotiate alternative forms of national belonging. By using Italy as a case study, this course will illuminate the relation between aesthetics and politics. (Taught in Italian.)

Ital 5970 Directed Readings
1-4 credit(s), max credits 16, 4 completions allowed;
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.

Japanese 220 Folwell Hall

Jpn 1012 Beginning Japanese
6 credit(s); 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 including both dialogue/grammar and 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).
Style: 25% Lecture, 75% Discussion.

Jpn 3022 Intermediate Japanese
5 credit(s); 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'ts). The items that will be covered in this term include, but are not limited to: 1. Describing the condition of an occurrence, 2. Speaking respectfully, 3. Explaining what you do not know, 4. Talking about bad experiences or events, and 5. Giving orders. It is expected that, by the end of this semester, students will be able to use the above functions to participate in formal, professional conversation. Students also will read/write short stories, expository writings,
and formal letters. 78 kanji characters will be introduced in addition to the 224 characters learned in the previous lessons.

**Style:** 40% Lecture, 60% Discussion.

**Grading:** 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

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**Jpn 3022 Intermediate Japanese**

- **5 credit(s); 3021 or instr consent** Credit will not be granted if credit has been received for: JPN 4004;
- **Instructor:** Inada, Minori
- **Description:** Student may contact the instructor or department for information.

**Jpn 3022 Intermediate Japanese**

- **5 credit(s); 3021 or instr consent** Credit will not be granted if credit has been received for: JPN 4004;
- **Instructor:** Mita, Ayumi
- **Description:** Student may contact the instructor or department for information.

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**Jpn 3032 Third Year Japanese**

- **4 credit(s); 3031 or instr consent** Credit will not be granted if credit has been received for: JPN 4006;
- **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); 3031 or instr consent** Credit will not be granted if credit has been received for: JPN 4006;
- **Instructor:** Buchanan, Michiko Todokoro
- **Description:** This course is the second of a two-semester sequence of third-year Japanese. The course will cover lessons 7-12 of 'An Integrated Approach to Intermediate Japanese - revised edition.' The course aims to develop the four communication skills (i.e., speaking, listening, reading, and writing) on an intermediate-high level, as well as strategies for carrying on a conversation. The items that will be covered in this semester include, but are not limited to: 1. Inviting people and accepting/declining an invitation, 2. Looking for a job, 3. Giving and receiving, 4. Making reservations, 5. Complaining and apologizing, and 6. Describing health conditions. 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.

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**Jpn 3290 Japanese Language Teaching Tutorial**

- **S-N only, 1 credit(s), max credits 2;**
- **Instructor:** Buchanan, Michiko Todokoro
- **Description:** Student may contact the instructor or department for information.

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**Jpn 4002 Beginning Japanese**

- **3 credit(s); 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 including both dialogue/grammar and 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).

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

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**Jpn 4004 Intermediate Japanese**
3 credit(s);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 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: 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 4004 Intermediate Japanese
3 credit(s);4003, grad student Credit will not be granted if credit has been received for: JPN 3022; 
Instructor: Inada, Minori
Description: Student may contact the instructor or department for information.

Jpn 4004 Intermediate Japanese
3 credit(s);4003, grad student Credit will not be granted if credit has been received for: JPN 3022; 
Instructor: Mita, Ayumi
Description: Student may contact the instructor or department for information.

Jpn 4006 Third Year Japanese
3 credit(s);4005, grad student Credit will not be granted if credit has been received for: JPN 3032; 
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);4005, grad student Credit will not be granted if credit has been received for: JPN 3032; 
Instructor: Buchanan, Michiko Todokoro
Description: This course is the second of a two-semester sequence of third-year Japanese. The course will cover lessons 7-12 of 'An Integrated Approach to Intermediate Japanese - revised edition.' The course aims to develop the four communication skills (i.e., speaking, listening, reading, and writing) on an intermediate-high level, as well as strategies for carrying on a conversation. The items that will be covered in this semester include, but are not limited to: 1. Inviting people and accepting/declining an invitation, 2. Looking for a job, 3. Giving and receiving, 4. Making reservations, 5. Complaining and apologizing, and 6. Describing health conditions. 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 4042 Advanced Japanese Conversation and Composition
4 credit(s);
Instructor: Buchanan, Michiko Todokoro
Description: Student may contact the instructor or department for information.

Jpn 5040 Readings in Japanese Texts
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Isaka, Maki
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;
Instructor: STAFF
Description: Directed Studies in ALL and Asian languages are restricted to very special conditions, with the particulars established by the individual teacher upon department approval. Note: Directed Studies cannot be used to fulfill the core requirements of either the Major or Minor.

Jewish Studies

JwSt 3202 Bible: Prophecy in Ancient Israel
3 credit(s); RELS 1001 or CNES 1201 or CNES 3201
Credit will not be granted if credit has been received for: RELS 3202;
Instructor: Levinson, Hanne Loeland
Description: What is prophecy? What is a prophet? What was the prophetic message, to whom did the prophet speak, and what did he/she convey? What was the prophet’s social, political and religious role? This course seeks to understand prophecy in ancient Israel and the prophetic literature of the Hebrew Bible/Old Testament within the larger context of the ancient Near East. The course will provide an introduction to prophetic literature, to the different prophetic genres, to the formation of the prophetic books, and to the study of imagery and metaphor. One fascinating feature of the prophetic literature of the Hebrew Bible is the way it is reused in later art, literature, and music; some examples of this phenomenon will be discussed in the course as well. We will be reading biblical texts from an academic point of view and the main goal of the course is to learn how to read closely, to think critically about the meaning of a text, and to differentiate between what the texts say and what later times have understood the texts to say.
Grading: 40% mid exam, 25% final exam, 25% reports/papers, 10% other evaluation. Smaller assignments 10%

JwSt 3202 Bible: Prophecy in Ancient Israel
3 credit(s); RELS 1001 or CNES 1201 or CNES 3201
Credit will not be granted if credit has been received for: RELS 3202;
Instructor: Barnes, William Hamilton
Description: What is prophecy? What is a prophet? What was the prophetic message, to whom did the prophet speak, and what did he/she convey? What was the prophet’s social, political and religious role? This course seeks to understand prophecy in ancient Israel and the prophetic literature of the Hebrew Bible/Old Testament within the larger context of the ancient Near East. The course will provide an introduction to prophetic literature, to the different prophetic genres, to the formation of the prophetic books, and to the study of imagery and metaphor. One fascinating feature of the prophetic literature of the Hebrew Bible is the way it is reused in later art, literature, and music; some examples of this phenomenon will be discussed in the course as well. We will be reading biblical texts from an academic point of view and the main goal of the course is to learn how to read closely, to think critically about the meaning of a text, and to differentiate between what the texts say and what later times have understood the texts to say.
Grading: 40% mid exam, 25% final exam, 25% reports/papers, 10% other evaluation. Smaller assignments 10%

JwSt 3512 History of Modern Israel/Palestine: Society, Culture, and Politics
3 credit(s); Credit will not be granted if credit has been received for: HIST 3512; Meets CLE req of Global Perspectives
Instructor: Schroeter, Daniel J
Description: Beginning with a survey of Palestine in the nineteenth century, this course examines the origins of Zionism and Arab Nationalism, Arab-Jewish conflict in Palestine, the development of Jewish and Arab national cultures in the British Mandate, the formation of the Israeli nation after 1948, the Arab-Israeli wars, and the development of the Palestinian movement. Particular attention will be paid to the diversity of Israeli and Palestinian society and culture, and the relations between the diverse communities in Israel/Palestine in the 20th century. As one of the most controversial subjects of the modern world, students will confront many contested accounts and interpretations of history that often serve the political aims of one of the many sides in the Israeli-Palestinian conflict. Yet in understanding these opposing viewpoints and competing versions of history, students will be better equipped to analyze why the conflict in Israel/Palestine has remained so difficult to resolve.
Style: 70% Lecture, 15% Discussion, 15% Small Group Activities.
Grading: 25% mid exam, 30% final exam, 30% reports/papers, 15% class participation.

JwSt 3900 Topics: Jewish Studies: Women, Gender and the Hebrew Bible
A-F only, 3 credit(s), max credits 15, 5 completions allowed;
Instructor: Levinson, Hanne Loeland
Description: "And the rib that the Lord God had taken from the man he made into a woman and brought her to the man" (Gen 2:22). Few texts have been more influential for the western world’s thinking about men, women, gender, and sexuality than the creation stories of the Hebrew Bible/Old Testament. Yet there is a considerable scholarly debate on how to best understand these texts. The goal of this course is to familiarize you with this debate. We will examine questions such as: How is man, woman, gender, and sexuality portrayed in the Hebrew Bible? What do we know about the social and
religious roles and status of women in ancient Israel? Is the God of the Hebrew Bible presented as a gendered God? What does it mean to read the Bible from a gender perspective, and what is feminist hermeneutics? We will be reading biblical texts from an academic point of view and the main goal of the course is to learn how to read closely, to think critically about the meaning of a text, and to differentiate between what the texts say and what later times have understood the texts to say.

**Grading:** 30% mid exam, 30% final exam, 40% reports/papers.

**JwSt 4000W Final Project, Writing Intensive**
- A-F only, 4 credit(s);
- Meets CLE req of Writing Intensive
- **Instructor:** Schneller, Renana Segal
- **Description:** Student may contact the instructor or department for information.

**JwSt 4001W Final Project, Writing Intensive**
- A-F only, 1 credit(s);
- Meets CLE req of Writing Intensive
- **Instructor:** STAFF
- **Description:** Student may contact the instructor or department for information.

**JwSt 5513W Scripture and Interpretation in Israelite Religion and Judaism**
- A-F only, 3 credit(s);
- At least one upper level course (3xxx or higher) in academic biblical or religious studies
- Credit will not be granted if credit has been received for: RELS 5513W; Meets CLE req of Writing Intensive
- **Instructor:** Levinson, PhD, Bernard M.
- **Description:** This seminar investigates the idea of divine revelation and its impact upon religion and literature. It shows how the history of the Bible's creation, transmission and interpretation in Judaism can help us think critically about the role of the idea of revelation in the history of religious traditions. Just what is revelation? What happens when a literary text is accorded the status of revelation? How does the belief that a text is revealed affect the way it is read within the community for which it constitutes revelation? These are the questions we bring to the particular case of Judaism's scriptural canon and the history of its interpretation. It will place particular emphasis upon the reinterpretation and transformation of authoritative texts within the Hebrew Bible even before the closure of the canon. Chronologically, it covers developments from about the 5th century B.C.E. until about the 13th century C.E. This period begins prior to the formation of the present version of the Bible, witnesses its compilation and the origins of Rabbinic Judaism and Christianity, and ends with the solidification of those medieval traditions of biblical commentary which still shape modern Jewish understanding of Scripture. That contemporary literary and legal studies have begun to address the issues of canon, the history of authorship, textual authority, canon transformation, intertextuality, and the nature of interpretation, extends the methodological and theoretical implications of the material studied.
- **Style:** 25% Lecture, 75% Discussion.
- **Grading:** 100% reports/papers.

**JwSt 5992 Directed Readings**
- 1-12 credit(s), max credits 12, 1 completion allowed;
- **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**
- 3 credit(s);
- Credit will not be granted if credit has been received for: JOUR 1001H; Meets CLE req of Social Sciences; meets CLE req of Technology and Society
- **Instructor:** Hansen, Kathleen Ann
- **Description:** How are new communication technologies (smart phones, tablets, etc.) changing the way media professionals do their work and audiences receive messages? What do we know about the effects of television and video games on children? Are social media going to kill traditional print media (newspapers, magazines, books)? Do advertising and public relations practitioners perform a useful information function in a democracy? Will we still go to a movie theater to see a film five years from now? What is it like to work in news, advertising or public relations? These questions and many more are explored in this course designed to introduce students to the theory and practice of mass communication in the United States. Students interested in majoring in journalism and mass communication must take this course before entering the major. Students interested in how and why mass communication messages function will leave the course with a deeper understanding of the media environment within which we all operate.
- **Style:** 50% Lecture, 25% Discussion, 25% Small Group Activities.
- **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
3 credit(s); Credit will not be granted if credit has been received for: JOUR 1001H; Meets CLE req of Social Sciences; meets CLE req of Technology and Society
Instructor: Paul, Nora
Description: How are new communication technologies (smart phones, tablets, etc.) changing the way media professionals do their work and audiences receive messages? What do we know about the effects of television and video games on children? Are social media going to kill traditional print media (newspapers, magazines, books)? Do advertising and public relations practitioners perform a useful information function in a democracy? Will we still go to a movie theater to see a film five years from now? These questions and many more are explored in this course designed to introduce students to the theory and practice of mass communication in the United States. The orientation is on the industries of mass communication and how they are changing and evolving in light of digital technologies. Students interested in majoring in journalism and mass communication must take this course before entering the major. Students interested in how and why mass communication messages function will leave the course with a deeper understanding of the media environment within which we all operate.
Style: 50% Lecture, 25% Discussion, 25% Small Group Activities.
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
3 credit(s); Credit will not be granted if credit has been received for: JOUR 1001H; Meets CLE req of Social Sciences; meets CLE req of Technology and Society
Instructor: Sanders, Amy Kristin
Description: How are new communication technologies (smart phones, tablets, etc.) changing the way media professionals do their work and audiences receive messages? What do we know about the effects of television and video games on children? Are social media going to kill traditional print media (newspapers, magazines, books)? Do advertising and public relations practitioners perform a useful information function in a democracy? Will we still go to a movie theater to see a film five years from now? What is it like to work in news, advertising or public relations? These questions and many more are explored in this course designed to introduce students to the theory and practice of mass communication in the United States. Students interested in majoring in journalism and mass communication must take this course before entering the major. Students interested in how and why mass communication messages function will leave the course with a deeper understanding of the media environment within which we all operate.

Jour 1904 Freshman Seminar: The Symbolic Meanings of Money
A-F only, 3 credit(s); Meets CLE req of Global Perspectives
Instructor: Doyle, Kenneth Owen
Description: Student may contact the instructor or department for information.

Jour 3004V Honors: Information for Mass Communication
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Sullivan, Dan
Description: Student may contact the instructor or department for information.

Jour 3004W Information for Mass Communication
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Paul, Nora
Description: This course introduces the concept of the information strategy as it applies to mass communication. The strategies, techniques and resources discussed will apply to any type of mass communication message production; they will also apply to academic work such as term paper and project production. We are most concerned with the process of information gathering, evaluation and use. A case study format will be used to study this process in depth throughout the semester. The case study topic for this semester changes each semester and draws from current news issues for which examples abound in advertising, news and public relations. WebCT is used for all the course materials.
Style: 66% Lecture, 34% Discussion.
Grading: 16% mid exam, 16% final exam, 30% special projects, 12% class participation, 26% problem solving.
Exam Format: Multiple choice and true / false

Jour 3004W Information for Mass Communication
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Watson, Brendan R
Description: This course introduces the concept of the information strategy as it applies to mass communication. The strategies, techniques and resources discussed will apply to any type of mass communication message production; they will also apply to academic work such as term paper and project production. We are most concerned with the process of information gathering, evaluation and use. A case study format will be used to study this process in depth throughout the
Jour 3005 Mass Media Effects
3 credit(s);Meets CLE req of Social Sciences
Instructor: Yzer, Marco
Description: Mass media have been alternately feared, bemoaned, used, and dismissed as tools to change beliefs, attitudes, and behavior. Together, we will explore a century's worth of thinking as to how and when media might have such effects, and whether we might expect that media effects will change as a function of trends in media development. We will approach this topic largely from a social science perspective, and building on current developments in that area will examine media effects using a multilevel approach. That is, will media effects be different for individuals, families, cultures and other possible groups? The idea is as simple as it is challenging: Media effects are the complex interaction of receivers who give meaning to media messages, the source of those messages, and the circumstances in which receivers engage with media messages.
Style: 70% Lecture, 30% Discussion.

Jour 3006 Visual Communication
3 credit(s);
Instructor: STAFF
Description: JOUR 3006 is an introduction to the study of visual media and to the role of images in mass communication and contemporary culture. The central goals of the course are to: 1) provide you with an understanding of the basic visual elements from which images are constructed; 2) sharpen your ability to analyze the messages encoded within visual images; 3) enhance your ability to articulate your reactions to images both verbally and in writing; 4) provide a strong foundation for professional work and scholarship in visual communication. At the end of the semester you will be looking at visual images differently than you do now: by studying the language of images and their social contexts you'll be able to appreciate their complexity, understand how to discover their meanings, and grasp their significance. If you attend class, look, listen, and respond, your level of visual literacy will be significantly enhanced, and you will be able to become a knowledgeable consumer of visual images.

Jour 3007 The Media in American History and Law: Case Studies
3 credit(s); Meets CLE req of Historical Perspectives
Instructor: Dell'Orto, Giovanna
Description: This course?certifed as fulfilling the Historical Perspectives Core requirement?focuses on the questions of power, access and representation in the media, and their social, political, economic and technological contexts, in two specific historical periods. This semester, the course deals with the development of print and broadcast journalism, during the American Civil War era and the World Wars period, respectively. A third case study, parallel to both, explores the development of the African American press in those eras. While examining the evolution of the media and journalism, the course emphasizes the relevant legal and ethical issues, especially freedom of expression. The focus on a specific era is intended to give students an opportunity for in-depth study of the media in a given period. We will examine how historical knowledge is produced from artifacts (primary sources) that have remained from the past and we will discern between ?the past? as what happened and ?historical knowledge? as what we know about the past. We will use historical methods and sources to produce historical knowledge about the form, debates about, and role of media in the past. So as to provide students with core liberal education, the course is designed to teach not only a body of historical knowledge, but also how to engage critically important social issues such as the role of journalism in public life, the promise and challenges of free expression in a democracy, the role of the citizen in a democratic public sphere, the role of the media in a diverse society, and the process of discovering historical knowledge.

Jour 3101 News Reporting and Writing
A-F only, 3 credit(s); Concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or admitted pre-jour or approved BIS/IDIM/ICP program] Credit will not be granted if credit has been received for: JOUR 3101H;
Instructor: Golden, Gayle Celeste
Description: Jour 3101 (News Writing and Reporting) is a basic, skills-based course designed to teach journalism students the fundamentals of news writing and reporting as demanded by newsrooms across all forms of media. The course is requires outside research (reporting) that includes interviewing, basic fact gathering and document search.

Jour 3101 News Reporting and Writing
A-F only, 3 credit(s); Concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or admitted pre-jour or approved BIS/IDIM/ICP program] Credit will not be granted if credit has been received for: JOUR 3101H;
Instructor: Moyer, J. Keith
Description: Student may contact the instructor or department for information.
Jour 3101 News Reporting and Writing  
A-F only, 3 credit(s); [3004W or Concurrent registration is required (or allowed) in 3004W or 3004V], [journ major or admitted pre-journ or approved BIS/IDIM/ICP program] Credit will not be granted if credit has been received for: JOUR 3101H;  
Instructor: Jensen, Sean  
Description: Student may contact the instructor or department for information.

Jour 3102 Multimedia Production and Storytelling  
A-F only, 3 credit(s);  
Instructor: Benson, Dana Richard  
Description: JOUR 3102 (Convergence Journalism) is an introduction to creating, repurposing and assembling content for distribution across integrated media platforms. Audio slideshows, video with sound, computer-based management of photos/video, web-related skills, media platforms.

Jour 3121 Intermediate News Reporting  
A-F only, 3 credit(s);  
Instructor: Ison, Christopher John  
Description: This is a class tailored to undergraduate journalism majors in the news/editorial sequence. Students will learn how to report on the people, events and institutions that make up the most fundamental news beats in any newsroom. They will learn by doing - hitting the streets to find news stories at city hall, the police department, the courthouse, etc. They will 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 3155 Editing for Print and Digital Audiences  
A-F only, 3 credit(s);  
Instructor: McKenzie, Sarah Lynn  
Description: Student may contact the instructor or department for information.

Jour 3173W Magazine Writing  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Golden, Gayle Celeste  
Description: This course will teach students the concepts and skills of writing for magazines. Students will learn how to identify a magazine’s niche and how to market stories editors want. Through a series of writing assignments, all of which will be edited and rewritten, students will then learn how to market, develop and write the most common types of magazine stories. In the end, students will have some experience pitching a story to a publication, giving them the first step into that marketplace.  
Style: 50% Lecture, 30% Discussion, 20% Small Group Activities.  
Grading: 10% special projects, 70% written homework, 20% class participation.

Jour 3201 Principles of Strategic Communication  
A-F only, 3 credit(s);  
Instructor: Williams, Jennifer Lisa  
Description: Jour 3201 is a required context course designed to introduce professional journalism students to strategic communications. The curriculum is designed to provide students with a fundamental awareness and understanding of strategic communication theory and methods which will prepare them for their advanced coursework in Advertising and/or Public Relations. Additionally, this course is designed as a survey of the field so that students can gain an important understanding of how the various practice areas work together. The class uses lecture, discussion and assignments to advance the curriculum. During the semester, students are expected to complete reading and class assignments, follow current industry news and participate in class and online discussions.  
Style: 40% Lecture, 15% Film/Video, 20% Discussion, 10% Small Group Activities, 5% Student Presentation, 10% Guest
Speakers.

Grading: 20% mid exam, 20% final exam, 30% special projects, 10% quizzes, 10% written homework. Online Discussions (10%)

Jour 3201 Principles of Strategic Communication
A-F only, 3 credit(s);
Instructor: Rim,Hyejoon
Description: Student may contact the instructor or department for information.

Jour 3241 Advertising Strategy and Creative Development
A-F only, 3 credit(s);
Instructor: Johnson,Jennifer Marie
Description: This course introduces students to creative strategic development and conceptual thinking in advertising. They will develop creative ideas based on strategies, with particular emphasis on media infinite concepts. At the end of the term, successful students will be able to recognize solid advertising, develop an intelligent creative strategy, create ideas that solve business problems, 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 3241 Advertising Strategy and Creative Development
A-F only, 3 credit(s);
Instructor: Wehrenberg,Steven James
Description: Student may contact the instructor or department for information.

Jour 3251 Evaluative Research in Strategic Communication
A-F only, 3 credit(s);
Instructor: Huh,Jisu
Description: Course Objectives: Strategic communication research helps provide information for advertisers, advertising agencies, and PR practitioners to understand their product, target audience, publics, and the factors which influence strategic communications to help them in making decisions. A major goal of this course is to teach you the importance of research in strategic communication and different types of research methods. Upon completion of this course, you should be able to: Understand the role of research in strategic communication, Understand the strategic communication research process, Apply quantitative and qualitative research methods to a real-world strategic communication situation, Understand social issues relating to strategic communication research, including the ethics of the research. Teaching methods: lecture and discussion Textbook: Fortini-Campbell, Lisa (2001), Hitting the Sweet Spot, The Copy Workshop. Target audience: undergraduate, ad/PR majors
Style: 80% Lecture, 20% Discussion.
Grading: 25% mid exam, 25% final exam, 15% reports/papers, 25% special projects, 10% class participation.
Exam Format: a combination of true-false, multiple-choice, fill-in-the-blank, and short answer questions

Jour 3253 Account Planning
A-F only, 3 credit(s);
Instructor: Ball,Jennifer
Description: Student may contact the instructor or department for information.

Jour 3261 Media Planning
A-F only, 3 credit(s);
Instructor: Herzog,Earl Alphonse
Description: Student may contact the instructor or department for information.

Jour 3275 Digital Media in Strategic Communication
A-F only, 3 credit(s);
Instructor: Gross,Michelle Lynn
Description: Student may contact the instructor or department for information.

Jour 3275 Digital Media in Strategic Communication
A-F only, 3 credit(s);
Instructor: Mandle,Daniel N
Description: Student may contact the instructor or department for information.
Jour 3279W Professional Writing for Strategic Communication  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Therkelsen, David Jon  
Description: Student may contact the instructor or department for information.

Jour 3279W Professional Writing for Strategic Communication  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Reid, Victoria Jane  
Description: Jour 3279 is a professional skills course focusing on the development of essential writing capabilities and tactical thinking required for the public relations profession. The course is designed to help students gain experience in researching, interviewing, writing and producing materials used by public relations practitioners. These include: professional biographies, press releases, fact sheets, backgrounders, media alerts, and speeches. Campaign tactics will be discussed throughout the course to provide a strong understanding of the public relations process.

Jour 3321 Media Design  
A-F only, 3 credit(s);  
Instructor: West, Arlene K  
Description: Student may contact the instructor or department for information.

Jour 3321 Media Design  
A-F only, 3 credit(s);  
Instructor: Husom, David Harold  
Description: Student may contact the instructor or department for information.

Jour 3321 Media Design  
A-F only, 3 credit(s);  
Instructor: Keenan, Zachary  
Description: Student may contact the instructor or department for information.

Jour 3451 TV, Radio and Digital News Reporting  
A-F only, 3 credit(s);  
Instructor: Benson, Dana Richard  
Description: News writing, reporting, video photography/editing, on-air delivery.

Jour 3552 Internet and Global Society  
3 credit(s); Meets CLE req of Global Perspectives  
Instructor: Lewis, Seth Corwin  
Description: This course examines how the Internet, as a decentralized and de-territorialized network, is connected with media and life in a globalized world. The course is both issue- and country-oriented, exploring how issues of digital technologies -- such as social/mobile media and activism, copyright and piracy, and e-commerce and government regulation -- intersect with politics, economics, technology, and society at the level of nation-states and cultures. A variety of theories or perspectives relevant or related to new media and global communication will be considered to help make sense of the interplay between Internet and society in a global setting. This course is roughly divided into two parts: conceptual and practical perspectives on Internet governance, and critical issues facing states and citizens at the global level. The division is designed to examine the structure and processes of the Internet and global society in both the theoretical and practical space. Because of the rapid growth of the Internet-related technologies (e.g., smartphones, social networks, and SMS tools in the developing world), it is difficult to survey the current Internet conditions and developments in all countries. The readings and discussions hence place special emphasis on a few select countries that may help illustrate how and why the Internet is revolutionizing the world’s geopolitical and socio-cultural landscape. Specifically, we investigate (1) the political, cultural, social, technological, and economic conditions that shape and are shaped by the presence of the Internet at the national and cross-national levels; (2) the effects of the Internet on the form and content of mass communication at the global level; and (3) the implications of the Internet use for human and social relations across national borders.

Jour 3745 Mass Media and Popular Culture  
3 credit(s); Credit will not be granted if credit has been received for: JOUR 3745H; Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US  
Instructor: Williams, Jennifer Lisa  
Description: Mass Media and Popular Culture is an exploration of the cultural role of media in our lives and societies. It is a study of how, why, and to what end popular television, films, music, entertainment, sports, brands and advertisements are produced and consumed. Mediation is examined as a process through which artists, producers, marketers, critics, and
audiences create meaning. This course teaches you how to critically examine popular culture presented in the media by examining the representations of class, gender, race, ethnicity and nationality in pop culture media texts.

**Jour 3745 Mass Media and Popular Culture**

*3 credit(s); Credit will not be granted if credit has been received for: JOUR 3745H; Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US*

**Instructor:** Miller, Ben Jacob

**Description:** Mass Media and Popular Culture is an exploration of the cultural role of media in our lives and societies. It is a study of how, why, and to what end popular television, films, music, entertainment, sports, brands and advertisements are produced and consumed. Mediation is examined as a process through which artists, producers, marketers, critics, and audiences create meaning. This course teaches you how to critically examine popular culture presented in the media by examining the representations of class, gender, race, ethnicity and nationality in pop culture media texts.

**Jour 3771 Mass Media Ethics: Moral Reasoning and Case Studies**

*3 credit(s); Meets CLE req of Civic Life and Ethics*

**Instructor:** Ison, Christopher John

**Description:** This course will help you build a foundation for making ethical decisions under the kinds of difficult circumstances that journalists and strategic communication professionals face every day. The instructor won’t be telling you the right decisions. (Not most of the time, anyway.) You get to decide what constitutes the right decision. Most of our discussion will focus on the process we should use to make good, ethical judgments. That requires all of us to explore, discuss and debate the way we make decisions and the consequences. This will happen in constant class discussion that everyone is expected to join. We’ll talk about ethical theory and real-life case studies in journalism, advertising and public relations. Some will be historical examples; others will be more recent cases, and some that surface during the semester. That means students should be reading the newspapers and other media every day. It also means that attendance and class participation is required in this course. If you’re shy about asking questions and contributing comments, that’s certainly not uncommon. But get over it. It’s time to break out of your shell. We’ll hear regularly from guest speakers from the news and strategic communications fields, and we’ll use the University’s Vista site as a source for much of our reading.

**Jour 3775 Administrative Law and Regulation for Strategic Communication**

*3 credit(s); Meets CLE req of Civic Life and Ethics*

**Instructor:** Sanders, Amy Kristin

**Description:** This course is designed to provide students with a basic understanding of mass communication law and regulation as it pertains to professional strategic communicators. We will examine significant court decisions affecting the legal rights and privileges relevant to the advertising, public relations and new media professions. We will survey the development of First Amendment law, including commercial speech, election/campaign speech, intellectual property, privacy and the regulation of emerging technology, including social media and the regulation of blogging. In addition, the course will provide students with an understanding of administrative law and the regulatory environment. This is an introductory strategic communication law course so no prior knowledge of substantive law is required. However, a basic familiarity with the U.S. Constitution, particularly the First Amendment, is presumed. Familiarity with the three branches of the U.S. government, including the executive branch agencies that develop and enforce administrative law, also is presumed. Upon completion of the course, students will be able to locate and analyze relevant legal primary sources to answer important legal questions related to strategic communication. Through the drafting of case briefs, students will have demonstrated basic knowledge of the key legal rules in the areas of commercial speech, copyrights, trademarks, privacy and defamation as well as other timely legal topics, such as social media use in strategic communication, which are relevant to the course material. After attending a legal research workshop, students will demonstrate their ability to think critically about legal readings by drafting a case opinion that addresses a significant legal topic of current interest.

**Jour 3776 Mass Communication Law**

*3 credit(s); Credit will not be granted if credit has been received for: JOUR 3776H;*

**Instructor:** Kirtley, Jane E

**Description:** Course objective: to allow undergraduates to gain a basic understanding of mass media law by reading and analyzing significant court decisions and statutes affecting legal rights and privileges of journalists. We will survey the development of First Amendment media law, including prior restraints, libel, privacy, reporters’ privilege, access to courts and to government information, and government regulation of electronic journalism. Course requires thorough preparation by reading primary source material as well as assigned textbook. Students must submit briefs (1-2 pages) of selected cases, prepare a short (5-10 pages) original research paper, write their own opinion in a First Amendment case (4-6 pages), and take two exams. Class participation is strongly encouraged. Format is primarily lecture/socratic dialogue.

**Style:** 65% Lecture, 35% Discussion.
Grading: 25% mid exam, 35% final exam, 40% reports/papers. Case briefs worth 15% of grade; opinion worth 15%; paper worth 20%. Exceptional class participation can raise grade.

Exam Format: Essay, with some short answer, multiple choice, true/false

Jour 3776H Mass Communication Law
A-F only, 3 credit(s); Honors Credit will not be granted if credit has been received for: JOUR 3776;
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;
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;
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;
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;
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;
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;
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;
Instructor: Tims, 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;
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;
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;
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;
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;
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;
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;
Instructor: Yzer, Marco
Description: Student may contact the instructor or department for information.

Jour 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
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;
Instructor: Sanders, Amy Kristin
Description: Student may contact the instructor or department for information.

Jour 3993 Directed Study
A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Thiel-Stern, Shayla
Description: Student may contact the instructor or department for information.

Jour 3996 Directed Internship
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Benson, Dana Richard
Description: Student may contact the instructor or department for information.

Jour 3996 Directed Internship
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Therkelsen, David Jon
Description: Student may contact the instructor or department for information.

Jour 3996 Directed Internship
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Golden, Gayle Celeste
Description: Student may contact the instructor or department for information.

Jour 3996 Directed Internship
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Johnson, Jennifer Marie
Description: Student may contact the instructor or department for information.

Jour 3996 Directed Internship
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Wehrenberg, Steven James
Description: Student may contact the instructor or department for information.
Jour 4171 Capstone: Covering the Arts
A-F only, 3 credit(s);
Instructor: STAFF
Description: JUNGLE VOYAGE What artists want from critics is better reviews. And they deserve them. Not rave reviews, necessarily, but informed ones. Readers want them too. And editors require them. Anyone with a smartphone can have an opinion these days. An expert critic knows his/ her field from the bottom up, starting with what goes on in the workroom. That was the thinking behind J4171: Covering the Arts -- Backstage at the Jungle Theater. Having taught arts reviewing at Murphy Hall for ten years, I wanted to try a course that combined writing about the arts and observing the artistic process firsthand. My first effort, a backstage course at the Guthrie Theater? s A Christmas Carol, went nicely, but I thought we? d learn more working with a smaller theater. When the Jungle Theater came to the J School suggesting a partnership, we were in business. Here? s how the class works. On Mondays we meet at Murphy Hall arts-writing workshop. On Wednesdays we meet at the Jungle to watch a rehearsal or to discuss the craft of the theater with an actor (Claudia Wilkens, Barbara Kingsley); a playwright (Craig Wright); a lighting designer (Barry Browning.) Or we meet an arts journalist (Star Tribune film critic Chris Covert) or editor (Daily Planet arts editor Jay Gabler.) Equally important, we find out about the business side of theater. How does the boxoffice work? How does the Jungle market a show? How does the board of directors deal with a cash crunch? Also on hand is the Jungle? s executive director, Margo Gisselman. She starts off the Wednesday class by sharing the theater? s good and bad news since last week? the grant that finally came through; the flood in the ladies room. Although the course focuses on the Jungle, it? s also about the ebb and flow of any artistic enterprise. The theater receives an an honorarium from the J School for its contribution, but for artistic director Bain Boehlke that? s not the point. ?We like having students around,? he says. ?It keeps us honest.? Style: 50% Discussion, 50% Field Trips.
Grading: 20% final exam, 10% special projects, 40% written homework, 30% class participation.
Exam Format: Final Exam: Part multiple-choice, to show what you? ve learned over the semester; part essay, to show your progress as a writer.

Jour 4193 Brovald-Sim Community Journalism Practicum: Murphy News Service
A-F only, 3 credit(s);
Instructor: Moyer,J. Keith
Description: JOUR 4193 is a field- based practicum course for advanced journalism majors held in professional media organizations. The course is designed to give students professional experience and complementary instructional content.

Jour 4242 Advertising Portfolio Development
A-F only, 3 credit(s);
Instructor: Johnson,Jennifer Marie
Description: This course introduces students to advertising creative development and conceptual thinking. Students will work in teams that include account planners, copywriters, and art directors. They will develop creative strategy briefs and present ideas based on their strategies. At the end of the term, successful students will be able to apply practical creativity to advertising ideas and will have a basic understanding of how to put a book together to get a job in advertising.
Style: 30% Lecture, 20% Laboratory. This class is highly interactive. Students must contribute to class creative exercises and assignments during each meeting.
Grading: A midterm creative review and a final creative review, by advertising professionals, will help determine final grades. Completion of assignments and level of improvement will also weigh heavily on grade. Student participation is critical.

Jour 4251 Psychology of Advertising
3 credit(s); Credit will not be granted if credit has been received for: JOUR 5251;
Instructor: STAFF
Description: Why do people like or dislike certain brands? Can ads make people buy things they don't need or want? Why does McDonald's use different ads in different countries? Is direct-to-consumer advertising of prescription drugs the main reason for the increasing U.S. healthcare spending? To answer these and many other advertising-related questions, it is essential for you to understand the psychology behind advertising strategies and advertising effects. Psychology of Advertising is designed to be an introduction to the underlying theories of consumer behavior that influence advertising strategy and explain why and how advertising works. This course helps students understand the consumer decision-making process, the role of advertising in the process, and various psychological, social, cultural, and message factors that affect advertising effects and effectiveness. The content of this course borrows from theories and research in psychology, sociology, marketing, communications, anthropology, and economics. The goals of this course are for upper-level undergraduate or graduate students to learn important concepts and theories of consumer behavior and consumer psychology, and to be able to apply the theories to real-world advertising situations to become more effective practitioners as well as more critical consumers of advertising.

Jour 4259 Strategic Communication Case Analysis
A-F only, 3 credit(s);
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 Strategic Communication Case Analysis
A-F only, 3 credit(s);
Instructor: Bail, Jennifer
Description: This course uses a case study approach to critically evaluate both effective and ineffective strategic communication campaigns. The course objective is to provide students with opportunities to apply their analytical skills when identifying communication opportunities and problems, evaluating the costs and benefits of alternative communication strategies and evaluating the outcome of communication campaign decisions. Students will learn how to analyze facts and figures that, in turn, can be used as quantitative and qualitative evidence to support strategic decisions and recommendations. The campaigns are drawn from the business, nonprofit, government and political sectors and they focus on communication issues solved by advertising, public relations, interactive advertising and/or social media. Students also examine cases involving crisis communication, media relations, and multicultural communication. The case study approach will prepare students to develop their decision making skills based on best practices learned through the critical evaluation of past campaigns.

Jour 4262 Management for Strategic Communication
A-F only, 3 credit(s);
Instructor: Marinovich, John
Description: Student may contact the instructor or department for information.

Jour 4263 Strategic Communication Campaigns
A-F only, 3 credit(s);
Instructor: Kaiser, Kent Luther
Description: Student may contact the instructor or department for information.

Jour 4263 Strategic Communication Campaigns
A-F only, 3 credit(s);
Instructor: Therkelsen, David Jon
Description: Student may contact the instructor or department for information.

Jour 4263 Strategic Communication Campaigns
A-F only, 3 credit(s);
Instructor: Pounds, James E
Description: Student may contact the instructor or department for information.

Jour 4263 Strategic Communication Campaigns
A-F only, 3 credit(s);
Instructor: Moorhouse, Bruce Thompson
Description: Student may contact the instructor or department for information.

Jour 4272 Interactive Advertising
A-F only, 3 credit(s);
Instructor: Suzuki, Yoshikazu
Description: Student may contact the instructor or department for information.

Jour 4274W Advertising in Society
3 credit(s); Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Advertising in Society introduces students to a variety of issues regarding ways in which advertising is linked to society. It examines these issues from several perspectives: social, cultural, economic, legal, and ethical. The course differs from professionally-oriented classes which study advertising from the perspective of a professional attempting to develop effective advertising. As a writing intensive course, Advertising in Society helps students learn how to conduct thorough analyses of issues, develop positions on issues, and present coherent and convincing arguments for positions they have taken. We begin the course with a four week section focusing on one issue involving the relationship between advertising and society. The issue chosen illustrates the complex, multifaceted nature of advertising--society issues. The next six weeks focus on the role of advertising in the economic system and the ways in which advertising is regulated to try to insure fair competition and to protect consumers. The last five weeks focus on social criticisms of advertising and the social responsibilities of advertising practitioners.
Jour 4302 Electronic Photojournalism
A-F only, 3 credit(s);
Instructor: Zerby, Mike
Description: Jour 4302 is a basic skills course, designed to teach a journalism student the fundamentals of electronic photojournalism as practiced by newsrooms across many forms of media. The course will: 1) create a foundation for understanding the historical, technical, aesthetic and ethical development of journalistic photography. 2) discuss and practice the principles of communication as embodied in the profession of photojournalism, including how to: a) conceptualize and plan photo shoots, photo stories, and essays. b) research story ideas, develop shooting strategies, gain access to subjects. c) structure and present visual narratives in print and on the internet. d) enable a student to acquire some of the camera and computer skills necessary to practice the craft of electronic photojournalism, including some digital darkroom processing. e) involve students in executing photo assignments and experiencing frequent critiques, thus beginning the creation of a portfolio of journalistic photography suitable for job seeking. The content and direction of this course will not presume great prior knowledge or skills. However, students with experience may proceed to more distant horizons. All photographic assignments will all be done with digital equipment. The primary focus will be on achieving access, capturing content and accomplishing journalistic story telling. The course will refer to other reporting competencies such as: technology, press responsibility, cultural sensitivity and ethics.
Style: 30% Lecture, 20% Discussion, 50% Laboratory.
Grading: 10% quizzes, 20% in-class presentation, 10% class participation, 60% problem solving.
Exam Format: performance on problem solving IS exam

Jour 4303 Capstone: Documentary Photojournalism
A-F only, 3 credit(s);
Instructor: Schwartz, Dona
Description: Student may contact the instructor or department for information.

Jour 4452 Capstone: Electronic Newscast Producing
A-F only, 3 credit(s);
Instructor: Benson, Dana Richard
Description: Student may contact the instructor or department for information.

Jour 4551 New Media and Culture
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Technology and Society
Instructor: Thiel-Stern, Shayla
Description: New Media and Culture is a critical exploration of how new media communication technology has shaped and been shaped by culture and society. Using the liberal arts as a springboard, the course questions and interrogates the impact of social and digital media in our daily lives as well as its influence upon media industries, politics, our bodies, and culture in general. Recent topics discussed the role of "big data" in society, the effect of the Internet on the news industry, how media becomes viral, as well as the impact of mobile apps and social media on social processes as well as on our brain.
Style: 40% Lecture, 15% Film/Video, 30% Discussion, 10% Guest Speakers, 5% Web Based.
Grading: 30% mid exam, 30% final exam, 20% special projects, 10% quizzes, 5% attendance, 5% class participation.
Grading changes per semester, depending on the instructor. The above is simply an example of a typical semester.

Jour 4721 Mass Media and U.S. Society
3 credit(s); Credit will not be granted if credit has been received for: JOUR 4721H; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Sullivan, Dan
Description: Are the news media doing a good job? How can you tell? Does it matter? Is The Daily Show the best news program on television? Why or why not? Most people seem to have an opinion about all of these questions. Most discussions seem to center on one of four themes: 1) who owns the media and what they care about; 2) media credibility and bias; 3) whether entertainment is replacing or enhancing information; and 4) to what extent is the Internet changing everything about the way the media work. Mass Media and U.S. Society will explore the validity and importance of these themes in terms of what roles can the media play in society, what roles does it play, and how have those roles changed over time. The course will draw on ideas from various social sciences to develop tools for discussing a number of specific issues related to these themes. The class format will be a mix of lecture and discussion. Required reading for the course will center on the one text for the course: The Press. There will be a midterm, a final and 3-4 short writing exercises.
Style: 60% Lecture, 40% Discussion.
Grading: 30% mid exam, 30% final exam, 30% reports/papers, 10% class participation.
Exam Format: short answer and short essay

Jour 4721H Mass Media and U.S. Society
A-F only, 3 credit(s); Honors Credit will not be granted if credit has been received for: JOUR 4721; Meets CLE req of
Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Sullivan, Dan
Description: Are the news media doing a good job? How can you tell? Does it matter? Is The Daily Show the best news program on television? Why or why not? Most people seem to have an opinion about all of these questions. Most discussions seem to center on one of four themes: 1) who owns the media and what they care about; 2) whether the news media are becoming more or less credible and/or biased; 3) whether entertainment is replacing or enhancing information in news programming; and 4) how much, if at all, is the Internet changing everything about the way the media work. Mass Media and U.S. Society will explore the validity and importance of these themes in terms of what roles the media play in society, what roles does it play, and how have those roles have changed over time. The course will draw on ideas from various social sciences to develop tools for discussing a number of specific issues related to these themes.
Style: 40% Lecture, 40% Discussion, 20% Small Group Activities.

Jour 4991 Special Topics in Mass Communication: Context: GMD App: Design and Content for Goldstein Museum
A-F only, 3 credit(s), max credits 6;
Instructor: LeFevre, Camille Lynn
Description: Student may contact the instructor or department for information.

Jour 4992 Capstone: Field Based Practicum
A-F only, 3 credit(s), max credits 6;
Instructor: Ison, Christopher John
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Doyle, Kenneth Owen
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Sullivan, Dan
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Ison, Christopher John
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Pedelty, Mark Holmes
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Dell’Orto, Giovanna
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Schwartz, Dona
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Tims, Albert R
Description: Student may contact the instructor or department for information.
Instructor: Wackman, Daniel Bruce
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Hansen, Kathleen Ann
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Golden, Gayle Celeste
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Kirtley, Jane E
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Eighmey, John
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Huh, Jisu
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Yzer, Marco
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Johnson, Jennifer Marie
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Squires, Catherine R
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Sanders, Amy Kristin
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: Thiel-Stern, Shayla
Description: Student may contact the instructor or department for information.

Jour 4993H Honors: Projects
A-F only, 3 credit(s);
Instructor: LaMarre, Heather Lyn
Description: Student may contact the instructor or department for information.

Jour 5155 Capstone: Database Reporting
Jour 5174 Capstone: Magazine Editing and Production  
A-F only, 3 credit(s);  
Instructor: Larsen, Elizabeth F  
Description: JOUR 5174 is the SJMC's capstone practicum in magazine and web writing, editing, photography, graphic design, and production. Students will study concepts of magazine and web communication and form with a special concern for how words, pictures, and design can be combined effectively. Over the semester the class will create and produce a professional quality single-theme magazine and website. During this process students will experience firsthand the organization and working of an editorial and production staff, and the implications of specific divisions of labor and working relationships.

Jour 5251 Psychology of Advertising  
3 credit(s); Strat Comm MA grad major or grad mass comm major/minor or instr consent  
Credit will not be granted if credit has been received for: JOUR 4251;  
Instructor: Eighmey, 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 5606W Literary Aspects of Journalism  
3 credit(s); Credit will not be granted if credit has been received for: ENGW 5606; Meets CLE req of Writing Intensive  
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;  
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;  
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;  
Instructor: Ison, Christopher 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;  
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;  
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;
   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;
   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;
   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;
   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;
   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;
   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;
   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;
   Instructor: Huh,Jisu
   Description: Student may contact the instructor or department for information.

Jour 5993 Directed Study
   A-F only, 1-3 credit(s), max credits 6, 6 completions allowed;
   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;
   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;
   Instructor: Sanders,Amy Kristin
   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;
   Instructor: Thiel-Stern,Shayla
   Description: Student may contact the instructor or department for information.
Jour 8003 The Changing Media Environment
A-F only, 3 credit(s);
Instructor: Lewis, Seth Corwin
Description: If there is one constant about the media environment, it appears to be change. There is continual evolution of media technologies, work practices, distribution mechanisms, and audiences/users—not to mention ongoing changes in the larger socio-cultural, political, economic, legal, and technological conditions for mediated communication. Such changes have become all the more apparent during our present digital moment, as media industries, institutions, and identities undergo significant disruption. How are we, as scholars, to make sense of these changes and their implications for mass communication and public life? The purpose of this class is to introduce graduate students to theories and concepts for understanding a changing media landscape, and for conducting empirical research in this area. In a single semester, it is impossible to complete an exhaustive tour of this terrain—the field of new media studies alone stretches far and wide across many disciplines and epistemologies. Thus, we will explore select research domains that will you give a sufficient lay of the land. We will do this primarily from a socio-cultural perspective, drawing on research approaches that are more humanistic (qualitative) than scientific (quantitative) in orientation, and yet I will seek to give fair representation to all perspectives of media and technology. My goals are three-fold: (1) to help you become familiar with key theories and concepts for understanding technological change (namely, digital media and culture) and its relationship to a changing media environment; (2) to help you develop the analytical skills necessary to critically evaluate work in this area and integrate it within your own area of specialty; and (3) to provide you case studies from which you can draw inspiration for your own research, in this seminar and beyond. Bringing together these goals is the capstone of the course: an original research paper that examines some phenomena in the changing media environment, using a conceptual or methodological theory, concept, or perspective elaborated in this course.

Jour 8202 Generation and Selection of Communication Strategies
A-F only, 3 credit(s);
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);
Instructor: Wood, Michelle Leigh Maronn
Description: Student may contact the instructor or department for information.

Jour 8503 Qualitative Research Methods in Mass Communication
A-F only, 3 credit(s);
Instructor: Thiel-Stern, Shayla
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); 5777 or instr consent or law studentCredit will not be granted if credit has been received for: LAW 6059;
Instructor: Kirtley, Jane E
Description: Student may contact the instructor or department for information.

Jour 8681 Seminar: Media and Globalization
A-F only, 3 credit(s);
Instructor: Dell'Orto, Giovanna
Description: This interdisciplinary seminar, team-taught by faculty at the U of M and Georgia Tech, focuses on news media and public debates over immigration in the United States and the European Union. We will use approaches from political science and mass communication to study the role that the mass media play in the public debates over immigration at the southern borders of the United States and the European Union. The class will bring together via ITV technology students at the University of Minnesota and the Georgia Institute of Technology to study the problematic of the media and immigration in an interdisciplinary way that includes political, historical, legal, social and cultural perspectives. We will compare the two most hotly contested immigration processes, those across the Mexican border into the United States and across the Mediterranean Sea into the European Union. There will be no exams: The research paper, group research projects and student-led class discussions aim to advance seminar members' individual research projects.

Jour 8990 Special Problems in Mass Communications: The Roles and Motives in Strategic Communication
A-F only, 3-4 credit(s), max credits 12, 4 completions allowed;
Instructor: Yzer, Marco
Description: Student may contact the instructor or department for information.
Jour 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
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;
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;
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;
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;
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;
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;
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;
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;
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;
Instructor: Golden,Gayle Celeste
Description: Student may contact the instructor or department for information.

Jour 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Kirtley,Jane E
Description: Student may contact the instructor or department for information.

Jour 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Eighmey,John
Description: Student may contact the instructor or department for information.
Jour 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Huh, Jisu
Description: Student may contact the instructor or department for information.

Jour 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Yzer, Marco
Description: Student may contact the instructor or department for information.

Jour 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Squires, Catherine R
Description: Student may contact the instructor or department for information.

Jour 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Sanders, Amy Kristin
Description: Student may contact the instructor or department for information.

Jour 8993 Directed Study
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Thiel-Stern, Shayla
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;
Instructor: Watson, Brendan R
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: McConaghy, Michael Dennis
Description: Student may contact the instructor or department for information.

Kin 1871 Survey of Kinesiology, Recreation, and Sport
A-F only, 3 credit(s);
Instructor: Rodgerson PhD, Richard W
Description: Student may contact the instructor or department for information.

Kin 1904 Freshman Seminar: Global Perspectives: Sport Culture in Italy
3 credit(s), max credits 6; Meets CLE req of Global Perspectives
Instructor: Buysse PhD, Jo Ann
Description: Student may contact the instructor or department for information.

Kin 3001 Lifetime Health and Wellness
A-F only, 3 credit(s); Meets CLE req of Social Sciences
Instructor: Ingraham PhD, 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); Meets CLE req of Social Sciences
   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 3027 Human Anatomy for Kinesiology Students
   A-F only, 3 credit(s);
   Instructor: Biltz MD, George R
   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;
   Instructor: McConaghy, Michael Dennis
   Description: Student may contact the instructor or department for information.

Kin 3112 Introduction to Biomechanics
   A-F only, 4 credit(s);
   Instructor: STAFF
   Description: Mechanical principles governing human motion. Human bone, muscle, neurophysiology. Measurements of human performance. Clinical/applied sport biomechanics. Lab introduces technology for assessing human motor function, such as electromyography or force sensors.

Kin 3112 Introduction to Biomechanics
   A-F only, 4 credit(s);
   Instructor: Aman PhD, Joshua Emanuel
   Description: Mechanical principles governing human motion. Human bone, muscle, and neurophysiology. Measurements of human performance. Clinical/applied sport biomechanics. Lab introduces technology for assessing human motor function such as electromyography or force sensors.

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); Meets CLE req of Writing Intensive
   Instructor: Russell, Hayley Catherine
   Description: Thoughts, feelings, and behaviors of people in physical activity contexts. Foundations approach to theory/research in sport and exercise psychology.

Kin 3131W History and Philosophy of Sport
   A-F only, 3 credit(s); Meets CLE req of Writing Intensive
   Instructor: Weiss PhD, Maureen
   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: STAFF
   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: Holst-Wolf, Jessica
   Description: Student may contact the instructor or department for information.

Kin 3136 Mental Skills Training for Sport
Kin 3143 Organization and Administration of Sport
A-F only, 3 credit(s);
Instructor: Steele, Reed Henderson
Description: Principles, policies, and procedures involved in the administration and management of sports programs at the interscholastic and intercollegiate levels.

Kin 3169 Volleyball Coaching Theory and Skill Development
A-F only, 2 credit(s);
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);
Instructor: Peterson, Gregory Jon
Description: Coaching theory and skill development necessary to coach football.

Kin 3327 Teaching Physical Education in the Elementary School
A-F only, 2 credit(s);
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);
Instructor: Biltz MD, George R
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;
Instructor: Vollum, Matt
Description: Student may contact the instructor or department for information.

Kin 3696 Supervised Practical Experience
S-N only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Ingraham PhD, Stacy Jean
Description: Student may contact the instructor or department for information.

Kin 3696 Supervised Practical Experience
S-N only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Stirling, Sue
Description: Student may contact the instructor or department for information.

Kin 3696 Supervised Practical Experience
S-N only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Richardson PhD, Tiffany
Description: Student may contact the instructor or department for information.

Kin 3982 Research Methods in Kinesiology
A-F only, 3 credit(s);
Instructor: Schuver, Katie Jo
Kin 3982 Research Methods in Kinesiology
A-F only, 3 credit(s);
Instructor: Phillips, Alison C
Description: Student may contact the instructor or department for information.

Kin 3982 Research Methods in Kinesiology
A-F only, 3 credit(s);
Instructor: Williams, Amanda L
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Biltz MD, George R
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Rodgerson PhD, Richard W
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Buysse PhD, Jo Ann
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Lewis PhD, Beth Ann
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Vollum, Matt
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: LaVoi PhD, Nicole Marie
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Ingraham PhD, Stacy Jean
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Allison JD, Rayla
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Leon MD, Arthur S
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: Kane PhD, Mary Jo  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Wiese-Bjornstal PhD, Diane M.  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Konczak PhD, Juergen  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Hoffman, Brandi L  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Dengel PhD, Donald Robert  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Snyder PhD, Eric Michael  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Stoffregen PhD, Thomas  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Ross PhD, Stephen  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Kihl PhD, Lisa A  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Weiss PhD, Maureen  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Richardson PhD, Tiffany  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology  
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;  
Instructor: Ji PhD, Li Li  
Description: Student may contact the instructor or department for information.

Kin 3993 Directed Study in Kinesiology
Kin 3993H Directed Study in Kinesiology: Honors
A-F only, 1-10 credit(s), max credits 10, 10 completions allowed;
Instructor: STAFF
Description: Student selected clinical or research experience.

Kin 4001H Honors Seminar in Kinesiology
A-F only, 3 credit(s), max credits 6;
Instructor: Ross PhD, Stephen
Description: Student may contact the instructor or department for information.

Kin 4133 Perceptual-Motor Control and Learning
A-F only, 3 credit(s);
Instructor: Stoffregen PhD, Thomas
Description: Kinesiology 4133 (Perceptual-motor control and learning) is an introduction to the emergence and stabilization of motor skills. The primary focus is on how we are able to coordinate movement -- movement of different parts of the body relative to one another, and movement of the body relative to the environment. 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. Kin 4133 is not a course about development or enhancement of athletic abilities, coaching, or sports performance, although we will occasionally discuss examples from these areas. By the end of the course, students will have a broad awareness of many of the factors involved in the perceptual guidance of motor coordination. The class will operate at a fast pace and will require reading of original scientific literature, and brief daily writing assignments.
Style: 80% Lecture, 5% Discussion, 15% Laboratory.
Grading: 20% mid exam, 25% final exam, 10% reports/papers, 25% laboratory evaluation, 20% other evaluation.
Exam Format: multiple choice, with short essays

Kin 4136 Embodied Cognition
A-F only, 3 credit(s);
Instructor: Stoffregen PhD, Thomas
Description: Introduction to relations between physical behavior and mental activity including 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);
Instructor: STAFF
Description: Effects of exercise on physiological systems of human body. Energy/nutritional requirements of exercise, exercise prescription, athletic conditioning, ergo-genic aids, exercise in environmental extremes, gender/heritability factors related to adaptation to training

Kin 4385 Exercise Physiology
A-F only, 4 credit(s);
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 4441 Movement Neuroscience
A-F only, 3 credit(s), max credits 6;
Instructor: Elangovan, Naveen
Description: Student may contact the instructor or department for information.

Kin 4520 Current Topics in Kinesiology: Speed, Agility & Reaction: Training Theory & App
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Rourk, Zachary Todd
Description: Student may contact the instructor or department for information.

Kin 4641 Training and Conditioning for Sport
A-F only, 3 credit(s);
Instructor: Kask, Jason G
Description: Student may contact the instructor or department for information.

Kin 4697 Student Coaching and Seminar
S-N only, 3 credit(s);
Instructor: Ingraham PhD, Stacy Jean
Description: Student may contact the instructor or department for information.

Kin 4741 Strength and Power Development and Program Design
A-F only, 3 credit(s);
Instructor: Rourk, Zachary Todd
Description: Student may contact the instructor or department for information.

Kin 4981 Understanding Kinesiology Research
A-F only, 3 credit(s);
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: Healy MA, Kathleen Dalton
Description: Introduction to physical education for students with disabilities, emphasizing conceptual, organizational, and administrative issues. Topics include historical and legal foundations, service components, evaluation through individualized education plans, professional roles, assessment of movement skills and the fourteen disability areas are examined. Information on parent input and expectations are included.
Style: 20% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities, 5% Student Presentation, 10% Guest Speakers, 5% Web Based, 10% Service Learning.
Grading: 30% mid exam, 30% final exam, 10% reports/papers, 20% special projects, 10% reflection paper.

Kin 5123 Motivational Interventions in Physical Activity
A-F only, 3 credit(s);
Instructor: Lewis PhD, Beth Ann
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 Social Psychology of Sport & Physical Activity
A-F only, 3 credit(s);
Instructor: Weiss PhD, Maureen
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: LaVoi PhD, 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 pre-requisite. This course is invaluable and highly recommended for students in the coaching minor, and for UG and Graduate students who are currently
coaching or intend to coach. 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

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**Kin 5142 Applied Sport Nutrition for Athletic Performance**

- **3 credit(s);**
- **Instructor:** Wilson, Patrick Benjamin
- **Description:** Student may contact the instructor or department for information.

**Kin 5152 Curriculum Development in Physical Education**

- **A-F only, 2 credit(s);**
- **Instructor:** STAFF
- **Description:** Trends, issues, and challenges in early childhood/K-12 physical education. Potential effect on curriculum.

**Kin 5196 Practicum: Developmental/Adapted Physical Education**

- **S-N only, 1-4 credit(s), max credits 4, 4 completions allowed;**
- **Instructor:** Braun MA, Jessica
- **Description:** Observation of, participation in physical education instruction for students with disabilities. Current issues in developmental/adapted physical education. Exchange of ideas/problems.

**Kin 5203 Health Media, Consumerism, and Communication**

- **A-F only, 2 credit(s);**
- **Instructor:** Johnson, Bonnie Ruth Young
- **Description:** Student may contact the instructor or department for information.

**Kin 5235 Advanced Biomechanics II: Kinetics**

- **A-F only, 3 credit(s);**
- **Instructor:** Ludewig, Paula M
- **Description:** Student may contact the instructor or department for information.

**Kin 5371 Sport and Society**

- **A-F only, 3 credit(s);**
- **Instructor:** Kane PhD, Mary Jo
- **Description:** The purpose of this course is to introduce students to social theories, research findings and principles in the field of Sport Sociology in order to analyze and understand the significance of sport in American society. Students will explore how one of the most powerful political, social and economic institutions in this country—sport—relates to broader cultural issues such as commercialization, gender equity, diversity and violence.

**Kin 5375 Competitive Sport for Children and Youth**

- **3 credit(s);**
- **Instructor:** Wiese-Bjornstal PhD, Diane M.
- **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:** 25% reports/papers, 30% special projects, 10% attendance, 10% journal, 10% reflection paper, 15% in-class presentation.
Kin 5385 Exercise for Disease Prevention and Management
A-F only, 3 credit(s);
Instructor: Leon MD, 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 5421 Sport Finance
A-F only, 3 credit(s);
Instructor: Ross PhD, Stephen
Description: In recent years, traditional sources of revenue - tax support, media revenues and gate receipts - have declined while costs have escalated. Increased demand for state-of-the-art facilities, coupled with an increase in player and operational costs, have forced sport managers to do more with less. This course is designed to provide students with an introduction to financial analysis, including discussion of traditional and innovative revenue producing strategies available to sport organizations. Along with more conventional income sources such as tax support, municipal and corporate bonds, ticket sales, concessions and fund raising, students will receive in-depth exposure to more recent innovations.

Kin 5585 Pediatric Physiology and Health: Concepts and Applications
A-F only, 2 credit(s);
Instructor: Biltz MD, George R
Description: Student may contact the instructor or department for information.

Kin 5601 Sport Management Ethics and Policy
A-F only, 3 credit(s);
Instructor: STAFF
Description: How to critically analyze ethical concepts that underpin or inform sport policies and evaluate sport policies from a normative point of view. Selected sport policy issues are used to illustrate relevance of ethical considerations in policy development and to explore the ethical implications of sport policy.

Kin 5641 Scientific Theory and Application of Training and Conditioning in Sport
A-F only, 3 credit(s);
Instructor: Rhodes, Greg
Description: Student may contact the instructor or department for information.

Kin 5696 Practicum in Kinesiology
S-N only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Practical experience in kinesiology under supervision of a University faculty member and an agency supervisor.

Kin 5720 Special Topics in Kinesiology: Cardiopulmonary Exercise Physiology
3 credit(s), max credits 8, 8 completions allowed;
Instructor: Snyder PhD, Eric Michael
Description: Student may contact the instructor or department for information.

Kin 5725 Organization and Management of Physical Education and Sport
A-F only, 3 credit(s);
Instructor: Schull, Vicki Denise
Description: Student may contact the instructor or department for information.

Kin 5801 Legal Aspects of Sport and Recreation
A-F only, 4 credit(s);
Instructor: Allison JD, Rayla
Description: Legal issues related to recreation, park, and sport programs/facilities in public/private sectors.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Biltz MD, George R
Description: Student may contact the instructor or department for information.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Rodgerson PhD, Richard W
Description: Independent study under tutorial guidance.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Buysse PhD, 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;
Instructor: Lewis PhD, 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;
Instructor: Vollum, Matt
Description: Student may contact the instructor or department for information.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: LaVoi PhD, 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;
Instructor: Ingraham PhD, 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;
Instructor: Allison JD, Rayla
Description: Independent study under tutorial guidance.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Leon MD, 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;
Instructor: Kane PhD, 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;
Instructor: Wiese-Bjornstal PhD, Diane M.
Description: Independent study under tutorial guidance.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Konczak PhD, Juergen
Description: Independent study under tutorial guidance.
Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Dengel PhD, Donald Robert
Description: Independent study under tutorial guidance.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Snyder PhD, Eric Michael
Description: Student may contact the instructor or department for information.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Stoffregen PhD, 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;
Instructor: Ross PhD, Stephen
Description: Independent study under tutorial guidance.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Kihl PhD, 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;
Instructor: Weiss PhD, Maureen
Description: Independent study under tutorial guidance.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Ji PhD, Li Li
Description: Student may contact the instructor or department for information.

Kin 5992 Readings in Kinesiology
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Gao PhD, Zan
Description: Student may contact the instructor or department for information.

Kin 5995 Research Problems in Applied Kinesiology
A-F only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Selected topics in physical activity and human performance.

Kin 6201 Clinical Experience I: Health Education
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Sylvester, Shirileen
Description: Student may contact the instructor or department for information.

Kin 6202 Clinical Experience II: Health Education
A-F only, 2-6 credit(s), max credits 6, 3 completions allowed;
Instructor: Johnson, Bonnie Ruth Young
Description: Student may contact the instructor or department for information.

Kin 6597 Clinical Experience II: Physical Education
A-F only, 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Vollum, Matt
Description: Half-day supervised teaching in urban or suburban elementary, middle, or high school physical education
Kin 6598 Clinical Experience III: Physical Education
A-F only, 2-6 credit(s), max credits 6, 3 completions allowed;
Instructor: Vollum, Matt
Description: Full-day supervised teaching in urban or suburban elementary, middle, or high school physical education setting.

Kin 8126 Sports Medicine Psychology
A-F only, 3 credit(s);
Instructor: Wiese-Bjornstal PhD, Diane M.
Description: Student may contact the instructor or department for information.

Kin 8980 Graduate Research Seminar in Kinesiology
S-N only, 1 credit(s), max credits 9, 9 completions allowed;
Instructor: Leon MD, Arthur S
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Buysse PhD, Jo Ann
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Lewis PhD, Beth Ann
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: LaVoi PhD, Nicole Marie
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Ingraham PhD, Stacy Jean
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Allison JD, Rayla
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Leon MD, Arthur S
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Wiese-Bjornstal PhD, Diane M.
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Konczak PhD, Juergen
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Dengel PhD, Donald Robert
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Snyder PhD, Eric Michael
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Stoffregen PhD, Thomas
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Ross PhD, Stephen
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Kihl PhD, Lisa A
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Weiss PhD, Maureen
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Ji PhD, Li Li
Description: Student may contact the instructor or department for information.

Kin 8995 Research Problems in Kinesiology
S-N only, 1-12 credit(s), max credits 12, 12 completions allowed;
Instructor: Gao PhD, Zan
Description: Student may contact the instructor or department for information.

Korean 220 Folwell Hall

Kor 1012 Beginning Korean
5 credit(s); 1011 Credit will not be granted if credit has been received for: KOR 4002;
Instructor: Johnson, Bryce L.
Description: Student may contact the instructor or department for information.

Kor 3022 Intermediate Korean
5 credit(s); 3021 Credit will not be granted if credit has been received for: KOR 4004;
Instructor: Kim, Sugyung
Description: Student may contact the instructor or department for information.

Kor 3032 Third Year Korean
4 credit(s); 3031 Credit will not be granted if credit has been received for: KOR 4006;
Instructor: Cho, Hangtae
Kor 3290 Korean Language Teaching Tutorial
S-N only, 1 credit(s), max credits 2;
Instructor: Cho, Hangtae
Description: Student may contact the instructor or department for information.

Kor 3993 Directed Studies
1-3 credit(s), max credits 12, 4 completions allowed;
Instructor: STAFF
Description: Directed Studies in ALL and Asian languages are restricted to very special conditions, with the particulars established by the individual teacher upon department approval. Note: Directed Studies cannot be used to fulfill the core requirements of either the Major or Minor.

Kor 4002 Beginning Korean
3 credit(s); 4001, grad student
Credit will not be granted if credit has been received for: KOR 1012;
Instructor: Johnson, Bryce L.
Description: Student may contact the instructor or department for information.

Kor 4004 Intermediate Korean
3 credit(s); 4003, grad student
Credit will not be granted if credit has been received for: KOR 3022;
Instructor: Kim, Sugyung
Description: KOR 3022/4004 is the second half of the intermediate Korean language course. The course is designed for students who have completed the first half of the intermediate Korean or have the equivalent proficiency. The goal of the course is to help students to achieve mid-intermediate proficiency in Korean and become more familiar with Korean culture. Students are expected to be engaged in spontaneous conversations on various topics, and to improve their skills for more understanding authentic Korean discourse in various conversational situations and composing essays in Korean. Students will also expand their vocabulary, including conversational & grammatical skills which will lead them to prepare for advanced level. Additionally, speaking, reading, writing, and listening skills will all be emphasized, with special attention to oral proficiency.
Style: 50% Lecture, 40% Small Group Activities, 10% Student Presentation.
Grading: 15% mid exam, 15% final exam, 10% special projects, 15% quizzes, 15% written homework, 5% attendance, 5% class participation, 20% other evaluation. 1. Attendance: Class Participation Attendance and class participation will be taken very seriously in this course. All students are expected to arrive a few minutes prior to class time, attend class regularly, and participate ACTIVELY in all of the

Kor 4006 Third Year Korean
3 credit(s); 4005, grad student
Credit will not be granted if credit has been received for: KOR 3032;
Instructor: Cho, Hangtae
Description: Student may contact the instructor or department for information.

Kor 5993 Directed Studies
OPT No Aud, 1-5 credit(s), max credits 15, 3 completions allowed;
Instructor: STAFF
Description: Directed Studies in ALL and Asian languages are restricted to very special conditions, with the particulars established by the individual teacher upon department approval. Note: Directed Studies cannot be used to fulfill the core requirements of either the Major or Minor.

Laboratory Medicine and Pathology 760 Mayo (MMC 609)

LaMP 4177 Nature of Disease: Pathology for Allied Health Students
3 credit(s);
Instructor: Lebahn, Fran
Description: The course is offered in a classroom setting or in an 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, each student should be able to: 1) define human disease as an alteration of normal structure and function; 2) correlate the concepts and underlying general pathology with specific diseases in different organ systems; 3) indicate the common diseases for each of the organ systems delineated and explain the primary features of each disease; 4) infer the interdependence of anatomic and functional systems; 5) interpret common terms used in clinical medicine and pathology and the frequently
LaMP 4177 Nature of Disease: Pathology for Allied Health Students
3 credit(s);
Instructor: Wilke, Mark Steven
Description: The course is offered in a classroom setting and online in the spring. Offered online only in the summer. The first part of this course covers general pathology; this is followed by organ system pathology. The class meets for 3 lecture hours per week (M-W-F, from 8:00-8:50 AM), earning 3 credits for the semester. The course is divided into five units, each followed by a unit examination. There is no comprehensive final exam. Enrolled students are in allied health programs such as Health and Wellness and Clinical Laboratory Science, as well as the College of Biological Science and the College of Food Science and Nutrition. The course is taught by a variety of lecturers, each covering his/her own area of expertise. Following the course, at the end of each unit of study the student should be able to: 1. Define human disease as an alteration of normal structure and function (as learned from anatomy and physiology), e.g. state that pathologic change is represented by abnormal structure and function. An abnormality may be grossly obvious or sub cellular and molecular. 2. Correlate the concepts and underlying general pathology with specific diseases in different organ systems, e.g. inflammatory reactions are similar whether in the heart, lungs, or other organ system. 3. For each of the organ systems delineated, e.g. the cardiovascular system: a. Indicate the common diseases of the system, inherited, infectious, neoplastic, etc. b. Explain the primary features of each disease. 4. Infer the interdependence of anatomic and functional systems, e.g. pituitary and thyroid, heart and lungs, prostate/bladder/kidney and recognize the sequence of events when one part is affected. 5. Interpret common terms used in clinical medicine and pathology and the frequently used suffixes and prefixes, e.g. -itis, -emia, dys-, as in dysplasia, etc. TEXTBOOKS and COURSE HANDOUT PACKAGE The course handout package and all optional textbooks are available in the Coffman Bookstore. 1. Course Handout Package Includes course syllabus and lecture outlines. Required for classroom section 2. The Nature of Disease/Pathology for the Health Professions, Thomas H. McConnell, Lippincott Williams & Wilkins, 2008. You may preview the book and find a good price on the electronic version at this web site: http://www.coursesmart.com/9780781753173 Optional 3. Robbins Basic Pathology, Kumar, Abbas, Fausto, Mitchell, 8th edition, Revised, W.B. Saunders Co., 2007. See the table of contents in the course handout package. Optional 4. Robbins Basic Pathology, Kumar, Cotran, Robbins, 7th edition, W.B. Saunders Co., 2003. Optional 5. Mosby's Pocket Dictionary of Medicine, Nursing and Allied Health, 6th ed., Mosby, Inc., 2009. This or a similar medical dictionary is recommended. Optional 6. A Merck Manual, 19th edition, Merck Co. 2011. This text is recommended for disease descriptions. It is a short textbook of medicine. Optional
Style: 100% Lecture.
Grading: 100% quizzes. Scores from the 5 unit exams are used for the final grade
Exam Format: Multiple choice

Land and Atmospheric Science

LAAS 5051 Thesis Proposal Writing for Land & Atmospheric Science
A-F only, 2 credit(s);
Instructor: Allan, Deborah L
Description: Student may contact the instructor or department for information.

LAAS 5426 Atmospheric Processes II: Radiation, Composition, and Climate
A-F only, 3 credit(s);
Instructor: Millet, Dylan Baird
Description: Student may contact the instructor or department for information.

LAAS 8195 Research Problems in Soils
1-5 credit(s), max credits 10, 10 completions allowed;
Instructor: Rosen, Carl Jay
Description: Student may contact the instructor or department for information.

LAAS 8195 Research Problems in Soils
1-5 credit(s), max credits 10, 10 completions allowed;
Instructor: Griffis, Timothy John
Description: Student may contact the instructor or department for information.

LAAS 8550 Teaching Experience
S-N only, 1 credit(s), max credits 6, 6 completions allowed;
Instructor: Allan, Deborah L
Landscape Architecture  144 Rapson Hall

LA 1301 Introduction to Landscape Architecture Drawing
A-F only, 3 credit(s); Meets CLE req of Arts/Humanities
Instructor: Larson, John Alfred
Description: Student may contact the instructor or department for information.

LA 1301 Introduction to Landscape Architecture Drawing
A-F only, 3 credit(s); Meets CLE req of Arts/Humanities
Instructor: Agee, Bradley Steele
Description: Student may contact the instructor or department for information.

LA 1401 The Designed Environment
A-F only, 3 credit(s);
Instructor: Agee, Bradley Steele
Description: The course is the designed environment - the intentionally designed places we frequent and inhabit. Efforts will be directed towards learning to "see" design in the everyday world in order to understand the ideas and principles on which the designed environment is built. The course will be looking at how the professions of architecture, landscape architecture and urban design (among others) combine to influence the shape and function of our homes, cities and region. Observe and critique the interaction between human needs/customs with biophysical systems in which we live. Students will be asked to look at designed spaces for themselves. Lectures and readings will support investigations.
Grading: 30% mid exam, 30% final exam, 40% laboratory evaluation.

LA 1601 Design and Equity
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: LA 3601; Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Miller, Kristine Frances
Description: Student may contact the instructor or department for information.

LA 2302 Computer-Aided Representation for Environmental Design
3 credit(s);
Instructor: Blaseg, Rachel Baudler
Description: Student may contact the instructor or department for information.

LA 3002 Informants of Creating Landscape Space
A-F only, 3 credit(s);
Instructor: Dorius, Coal
Description: Student may contact the instructor or department for information.

LA 3004 Regional Landscape Planning
3 credit(s);
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);
Instructor: Musacchio, Laura R
Description: This course will help you to develop greater insights into bioregional practice and how it responds to the landscape ecology of great bioregions. The goal for this course will be learning more about the scientific and cultural basis for bioregional design and landscape sustainability. A prerequisite for this course is EEB 3001 Ecology and Society.

LA 3501 Environmental Design and Its Biological and Physical Context
A-F only, 3 credit(s); Meets CLE req of Environment
Instructor: Roos, Stephan John
Description: Student may contact the instructor or department for information.
LA 3501 Environmental Design and Its Biological and Physical Context
A-F only, 3 credit(s); Meets CLE req of Environment
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); 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; Meets CLE req of Civic Life and Ethics
Instructor: Nunnally, Patrick
Description: Environmental parameters affecting growth/development of metropolitan areas. Students assess these parameters and prepare a multi-functional land use plan for a defined locale.

LA 3601 Design and Equity
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: LA 1601; Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Miller, Kristine Frances
Description: Student may contact the instructor or department for information.

LA 4002 Implementation of Sustainable Landscape Design and Planning Practices
3 credit(s);
Instructor: Rockcastle, Maura M
Description: Student may contact the instructor or department for information.

LA 4096 Internship in Landscape Design and Planning
S-N only, 1 credit(s);
Instructor: Agee, Bradley Steele
Description: Student may contact the instructor or department for information.

LA 5004 Regional Landscape Planning
3 credit(s);
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);
Instructor: Koepeke, John Albert
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 understand more about people, nature, and environmental stewardship in metropolitan landscapes. In this class, metropolitan landscapes include not only urban and suburban areas but also the rural areas that provide natural resources for people, like food, water, energy, and recreation. During the semester, we will explore these questions about the relationship among people, nature, and landscape sustainability: (1) How has the relationship between humans and nature evolved in relation to non-local phenomenon like globalization, urbanization, and industrialization? (2) How are ecosystem dynamics in cities and metropolitan regions different from other ecosystems? (3) What is a sustainable landscape, and does it look different and function differently than conventional landscapes? (4) When considering the potential impacts of climate change, is it realistic to restore an urban ecosystem or agroecosystem to a historic reference ecosystem or an analog? (5) How can we increase ecological and place literacy of people through education so that they are more likely to accept and adopt alternative landscape patterns and practices? (6) Can alternative landscapes, like brownfields, greenways, green walls, green roofs, vertical farms, carbon farms, biofuel farms, and community gardens, help to recouple people’s contact with nature by reinterpreting human-nature systems? During the semester, we will answer these questions using the lens of holistic landscape ecology and examine why it is a useful framework for organizing theories, concepts, and ideas about human-nature relationships in metropolitan regions. This approach will help you to understand more about the ecology of place, such as how people’s actions influence the distribution and abundance of organisms in landscapes as well as the people’s actions affect ecological flows across landscapes (e.g., water, air, animals, pollutants, and climate). It will help you understand why the appearance and beauty of a landscape matters in environmental stewardship, and why the ecology of landscape intervention influences broad and fine scale spatial patterns and human experiences. In addition, holistic landscape ecology complements important trends
like sustainability science, ecological urbanism, and landscape urbanism, and we investigate and discuss these connections during the course.

LA 5377 Representation II
A-F only, 4 credit(s), max credits 8; Master of Landscape Architecture (MLA) or Accelerated Bachelor of Environmental Design
Credit will not be granted if credit has been received for: ARCH 5372;
Instructor: Vanagaite, Egle
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;
Instructor: Tucker, Matthew J
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;
Instructor: de Britto, Vincent P
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;
Instructor: Neckar, Lance M
Description: Student may contact the instructor or department for information.

LA 5514 Making the Mississippi
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: LA 3514;
Instructor: Nunnally, Patrick
Description: Environmental parameters affecting growth/development of metropolitan areas. Students assess these parameters and prepare a multi-functional land use plan for a defined locale.

LA 8205 Urban Form Options: Landscape Architecture Studio
6-8 credit(s), max credits 8, 1 completion allowed;
Instructor: Kost, Robert M
Description: Student may contact the instructor or department for information.

LA 8302 Professional Practice
A-F only, 3 credit(s);
Instructor: Tucker, Matthew J
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;
Instructor: Christensen, Carrie Ann
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;
Instructor: Blaseg, Rachel Baudler
Description: Student may contact the instructor or department for information.

LA 8555 Advanced Landscape Planning and Design
A-F only, 6 credit(s);
Instructor: Krinke, Rebecca Jean
Description: Student may contact the instructor or department for information.

LA 8575 The Art and Ecology of Landscape Detail
3 credit(s);
Instructor: Favour, Joseph Richard
Description: Student may contact the instructor or department for information.
Lat 1002 Beginning Latin II
5 credit(s);
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); Grade of at least C- or S in 3003 or 3113 or dept consent credit will not be granted if credit already received for: Lat 3300, Lat 3114 Credit will not be granted if credit has been received for: LAT 5004;
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 3993 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Smith, Stephen
Description: Student may contact the instructor or department for information.

Lat 5004 Intermediate Latin Poetry for Graduate Students
3 credit(s); [5003 or equiv], grad student or dept consent Credit will not be granted if credit has been received for: LAT 3004;
Instructor: Krevans, Nita
Description: Student may contact the instructor or department for information.

Lat 5200 Advanced Reading in Later Latin
3 credit(s), max credits 18, 6 completions allowed;
Instructor: Nicholson, Oliver
Description: The main effort in this class will be towards reading and understanding two works of the early Christian apologist Lactantius (ca. 250 - ca. 325 AD), On the Anger of God and On the Deaths of the Persecutors. The Great Persecution of the Christian Church by the Roman authorities which lasted from 303 to (in some parts of the Roman Empire) 313 was one of the formative traumas of the Western World. Stories continued to be told about it for centuries afterwards - and they lost nothing in the telling. One reason that Lactantius is important is that he was writing his On the Anger of God and On the Deaths of the Persecutors immediately after the persecutions had apparently come to an end. They are both dedicated to a Christian called Donatus and it seems fair to assume that they are both the same man. On the Anger of God argues that if God is to be thought to be actively benevolent he must also be thought capable of anger - he is not some pale First Principle of the philosophers but an Active Providence engaged in the world he made out of nothing. On the Deaths of the Persecutors demonstrates this contention by giving a detailed account of the magna et mirabilia exempla of recent events - the Great Persecution and the Rise to supreme power of the Emperor Constantine the Great (306-37), the first Christian Roman Emperor. We will of course be concerned to consider the significance of the arguments and events which Lactantius adduces, but our principal effort will be to understand the text.
Exam Format: Exams will be translation and 'gobbets' - passages of text set for comment - explanation in class. The papers will be brief and on topics chosen by students but agreed with the instructor.

Lat 5701 Latin Prose Composition
3 credit(s);
Instructor: Sheets, George A
Description: This a course in Latin Prose composition. The course aims to improve students' comprehension of and proficiency in using: (1) Latin morphology & syntax; (2) Latin vocabulary & idioms; (3) Latin discourse markers (particles, word order); and (4) elements of Latin prose style (cola, figures, concinnity and its absence).
Style: 25% Lecture, 25% Discussion. critiquing daily composition exercises
Grading: 100% other evaluation. Cumulative average of graded daily compositions
Exam Format: no exams

Lat 5800 Sight Reading for Graduate Students
S-N only, 1 credit(s), max credits 6, 6 completions allowed;
Instructor: Nicholson, Oliver
Description: Student may contact the instructor or department for information.

Lat 8910 Seminar: Latin literature of the Republic
3 credit(s), max credits 30, 10 completions allowed;
Instructor: Cole, Spencer E
Description: An advanced survey of Latin literature from its beginnings to the late Republic. Authors studied include Cato, Ennius, Terence, Lucretius, Catullus, Sallust, Caesar, Varro, and Cicero.

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 Global Perspectives; meets CLE req of Historical Perspectives; 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

LAS 3429 Latin American History in Film and Text
3 credit(s); Credit will not be granted if credit has been received for: HIST 3429; Meets CLE req of Arts/Humanities; meets CLE req of Global Perspectives
Instructor: Chambers, Sarah C
Description: In the past few decades, there has been a creative explosion of films and documentaries representing women in Latin America, past and present. This course invites you to reflect critically upon those cinematic representations by placing them in the context of other historical and fictional narratives. For example, what can we learn about both the 17th and 20th centuries—by comparing the film "I, the Worst of All" (Dir. Maria Luisa Bemberg, 1990) with: Octavio Paz's biography of the 17th-century Mexican nun upon which the film is based, the writings of Sor Juana herself, and the analysis of her work by literary critics? We will compare two film versions of the life of Mexican artist Frida Kahlo: the recent movie starring Salma Hayeck and a Mexican film directed by Paul LeDuc in 1984. In addition to several other feature films, we will also explore the roles of women as directors and actors in the Latin American and Hollywood film industries. This course has been approved for the arts/humanities core and global perspectives theme requirements.
Style: 20% Lecture, 30% Discussion. viewing films
Grading: 40% reports/papers, 20% class participation, 40% other evaluation. written reactions to films and readings

Law School  285 Mondale Hall

Law 6003 Legal Research & Writing and Statutory Interpretation
P-F only, 1-3 credit(s), max credits 6;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Law 6004 Property
A-F only, 4 credit(s);
Instructor: STAFF
Description:

Law 6009 Criminal Law
A-F only, 3 credit(s);
Instructor: STAFF
Description:
Law 6010 Perspectives: 1L
  A-F only, 3 credit(s);
  Instructor: Parisi, Francesco
  Description:

Law 6011 International Law: 1L
  A-F only, 3 credit(s);
  Instructor: Wippman, David
  Description:

Law 6012 Corporations: 1L
  A-F only, 3 credit(s);
  Instructor: Adams, Edward Scott
  Description:

Law 6013 Law In Practice 1L
  P-F only, 3 credit(s);
  Instructor: Cox, Prentiss
  Description: Student may contact the instructor or department for information.

Law 6014 Constitutional Law II
  A-F only, 3 credit(s);
  Instructor: Goodwin, Michele Bratcher
  Description:

Law 6015 Civil Procedure II
  A-F only, 3 credit(s);
  Instructor: Erbsen, Allan H
  Description: This course builds on Civil Procedure I both by examining some of Civil Procedure I's topics in more depth and by examining additional facets of civil litigation. Topics may include personal jurisdiction, subject matter jurisdiction, venue, preliminary injunctions and temporary restraining orders, the /Erie/ doctrine, appeals, class actions, and complex litigation.

Law 6015 Civil Procedure II
Law 6017 Humphrey Law Course
   P-F only, 2-3 credit(s), max credits 6;
   Instructor: Rudelius-Palmer,Kristi Lynn
   Description:

Law 6019 Sem: Leadership and the Law - LL.M.
   A-F only, 2 credit(s);
   Instructor: Hornsby,Khary D.
   Description: Student may contact the instructor or department for information.

Law 6020 Introduction to American Law
   A-F only, 2 credit(s);
   Instructor: Hornsby,Khary D.
   Description: Student may contact the instructor or department for information.

Law 6021 Seminar: LL.M. Legal Research and Writing
   A-F only, 2-3 credit(s), max credits 6;
   Instructor: STAFF
   Description: How to conduct legal research, interpret statutes, analyze cases, and write research papers and legal memoranda. Written English, style/form used by U.S. lawyers to present a legal argument.

Law 6025 Wrongful Convictions
   A-F only, 2 credit(s);
   Instructor: STAFF
   Description:

Law 6028 LL.M. Judicial Observation
   S-N only, 1-2 credit(s), max credits 2, 1 completion allowed;
   Instructor: STAFF
   Description: Students work with a judge and observe how our court systems work in the United States

Law 6036 Reproductive Rights
   A-F only, 3 credit(s);
   Instructor: STAFF
   Description:

Law 6038 Biomedical Ethics
   A-F only, 3 credit(s);
   Instructor: Elliott Jr,Bruce Carleton
   Description: Student may contact the instructor or department for information.

Law 6040 Perspectives on the Law
   A-F only, 3 credit(s);
   Instructor: Parisi,Francesco
   Description:

Law 6041 Investment Management Law
   A-F only, 2 credit(s);
   Instructor: Royal,David Scott
   Description:
Law 6042 Nonprofits and Public Sectors Externships
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Cook, Nancy L.
Description:

Law 6052 Sales
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description:

Law 6055 Advanced Corporate Law
A-F only, 3 credit(s);
Instructor: STAFF
Description:

Law 6057 Judicial Externship
P-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description:

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:

Law 6062 Energy Law
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Klass, Alexandra B.
Description:

Law 6100 Taxation I
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
Instructor: STAFF
Description:

Law 6102 Mergers and Acquisitions
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: McBroom, Taiesha Laini
Description: Student may contact the instructor or department for information.

Law 6103 Privacy
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description:

Law 6109 Creditors' Remedies/Secured Transactions
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
Instructor: STAFF
Description:

Law 6111 Lawyers in Film
A-F only, 2 credit(s);
Instructor: Cribari, Stephen Jon
Description: Student may contact the instructor or department for information.

Law 6114 Partnership Taxation
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: http://www.law.umn.edu/current/courseguide.html
Law 6115 Civil Discovery: Theory and Practice  
A-F only, 2 credit(s);  
Instructor: Roen, Craig Matthew  
Description:

Law 6116 Pretrial Skills: Lawyering Process  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description:

Law 6117 CL: Civil Rights Enforcement  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Voss, Ana Holmes  
Description:

Law 6118 CL: Criminal Defense Appeals  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description:

Law 6119 Sem: Criminal Prosecution Appeals  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Crain, Marcy Sue  
Description:

Law 6120 Federal and State Courts  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description:

Law 6127 Museums, Conflict and Law  
A-F only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Cribari, Stephen Jon  
Description: Student may contact the instructor or department for information.

Law 6202 Conflicts  
A-F only, 3 credit(s);  
Instructor: Paulsen, Sharon Reich  
Description:

Law 6203 Labor Law  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description:

Law 6207 Antitrust I  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description:

Law 6211 Federal Securities Regulations  
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;  
Instructor: STAFF  
Description:

Law 6213 Real Estate Transactions  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description:
Law 6214 Insurance
   A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
   Instructor: STAFF
   Description:

Law 6217 Securities Litigation
   A-F only, 2 credit(s);
   Instructor: STAFF
   Description:

Law 6219 Evidence
   A-F only, 3-4 credit(s), max credits 4, 1 completion allowed;
   Instructor: STAFF
   Description:

Law 6224 Patents
   A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
   Instructor: STAFF
   Description:

Law 6225 Winning Patent Litigation
   A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
   Instructor: STAFF
   Description:

Law 6245 Interviewing, Counseling, and Negotiating
   A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
   Instructor: STAFF
   Description:

Law 6400 International Environmental Law
   A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
   Instructor: STAFF
   Description:

Law 6405 Labor and Employment Law Capstone
   A-F only, 4-5 credit(s), max credits 5, 1 completion allowed;
   Instructor: Schanfield, Karen Sue
   Description:

Law 6405 Labor and Employment Law Capstone
   A-F only, 4-5 credit(s), max credits 5, 1 completion allowed;
   Instructor: Cooper, Laura J
   Description:

Law 6408 Climate Change and Clean Energy Capstone
   A-F only, 4-5 credit(s), max credits 5, 1 completion allowed;
   Instructor: Osofsky, Hari Michele
   Description:

Law 6600 Professional Responsibility
   A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
   Instructor: STAFF
   Description:

Law 6605 Health Law
   A-F only, 3 credit(s);
   Instructor: STAFF
   Description:
Law 6606 Administrative Law  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description:  

Law 6608 Trademarks  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description:  

Law 6610 Unfair Competition  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description:  

Law 6615 Jurisprudence  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description: This course will be a general survey course of American legal movements and conceptions of the law. The course will examine foundational legal questions: What is law, why are we obligated to follow laws, and when if ever, are we not? What is the Rule of Law? When if ever can we condemn a law as unjust and, if so, must we obey it? We will also examine how different legal movements have attempted to answer these questions from the beginnings of "legal science" and formalism; to the Legal Realists and the responses to them; to the more recent movement to unite law with moral philosophy; to Critical Legal Studies; and responses to the Critical Studies movement. We will compare and contrast these movements with basic conceptions of the law-positivism and natural rights.  

Law 6618 Trial Practice  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description:  

Law 6619 International Trade Law  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description:  

Law 6620 Community Policy Development  
A-F only, 2 credit(s);  
Instructor: Cook, Nancy L.  
Description: Student may contact the instructor or department for information.  

Law 6623 Integrative Leadership: From Theory to Practice  
A-F only, 3 credit(s);  
Instructor: White, Katie Marie  
Description: This is an interdisciplinary, 3-credit seminar led by co-instructors from multiple schools of the university. Students will: a) learn to recognize and diagnose integrative leadership challenges and opportunities; b) build their own capacities to practice integrative leadership through group work in individualized peer-to-peer coaching in diverse teams and through being exposed to a range of boundary work practices; and c) gain better knowledge of the leadership contexts within their own profession and in other sectors. We emphasize contexts for integrative leadership at five basic levels: within individuals, within and across groups, within and across organizations, within and across sectors, and at the societal scale. Learning occurs through reading foundational materials, personal leadership coaching, engaging extensively with examples from guest speakers and case materials, developing a group capstone project on integrative leadership, and iteratively co-producing an understanding of what integrative leadership is. This course is sponsored by four departments. If PA 5105 shows as full, please check for space under the other departments - MGMT 6402, OLPD 6402, and PubH 6702. They are all for the same class, with the same instructors, meeting at the same time. Every section in all four schools must be filled before any over-ride permission numbers are issued. If all class sections are full, please contact Merrie Benasutti at the Center for Integrative Leadership (624-8300) for a permission number.  
Style: 15% Lecture, 20% Discussion, 25% Small Group Activities, 10% Student Presentation, 15% Guest Speakers, 15% Web Based.  
Grading: 30% reports/papers, 30% reflection paper, 20% class participation, 20% other evaluation. Participation in class-based learning and discussion - 20% Biweekly reading notes and biweekly reflection notes - 30% Team case study project
Law 6624 Strategic Management of Intellectual Property Law
A-F only, 2 credit(s);
Instructor: Vaaler, Paul Martin
Description: Student may contact the instructor or department for information.

Law 6625 Disability Law
A-F only, 3 credit(s);
Instructor: STAFF
Description:

Law 6626 Complex and Cross-Cultural Negotiations
A-F only, 2 credit(s);
Instructor: Vaaler, Paul Martin
Description: Student may contact the instructor or department for information.

Law 6627 International Tax
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description:

Law 6628 Advanced Trial Practice
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description:

Law 6636 European Human Rights
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description:

Law 6639 Internet Law
A-F only, 3 credit(s);
Instructor: McGeveran, William
Description:

Law 6646 Law, Technology and Inequality
A-F only, 3 credit(s);
Instructor: Carbone, June Rose
Description:

Law 6648 International Criminal Law
A-F only, 3 credit(s);
Instructor: Jain, Neha
Description:

Law 6706 Punishing Corporations and Governments
A-F only, 3 credit(s);
Instructor: Jain, Neha
Description:

Law 6709 Seminar: Agriculture & the Environment
A-F only, 2 credit(s);
Instructor: Minge, David Raymond
Description:

Law 6709 Seminar: Agriculture & the Environment
A-F only, 2 credit(s);
Instructor: Carpenter, James Stephen
Description:

Law 6711 Sem: National Security Cases in Federal Courts
A-F only, 2 credit(s);
Instructor: Docherty, John Francis
Description: Student may contact the instructor or department for information.

Law 6712 Sem: Advanced Criminal Investigations
A-F only, 2 credit(s);
Instructor: Murray, Jane Anne
Description:

Law 6713 Comparative Legal Professions
A-F only, 2 credit(s);
Instructor: Kritzer, Herbert M
Description:

Law 6714 Seminar: E-Discovery
A-F only, 2 credit(s);
Instructor: Clark, Brian D
Description:

Law 6715 Student Speech: Rights and Regulations
P-F only, 2 credit(s);
Instructor: Shen, Francis Xavier
Description:

Law 6800 Seminar: International Contracts
A-F only, 3 credit(s);
Instructor: STAFF
Description:

Law 6808 Seminar: Street Law
A-F only, 2 credit(s);
Instructor: STAFF
Description:

Law 6809 Seminar: Advanced Intellectual Property: Special Projects
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Law 6817 Seminar: Practical Estate Planning
A-F only, 2 credit(s);
Instructor: STAFF
Description:

Law 6818 Seminar: White Collar Crimes
A-F only, 2 credit(s);
Instructor: STAFF
Description:

Law 6822 Seminar: Legislative Process
A-F only, 2 credit(s);
Instructor: STAFF
Description:

Law 6824 Seminar: Genetics: Law and Ethics
A-F only, 2 credit(s);
Instructor: Van Ness,Brian George
Description:

Law 6827 Seminar: Women's International Human Rights
A-F only, 2 credit(s);
Instructor: STAFF
Description:

Law 6830 Seminar: Corporate Counsel
A-F only, 2 credit(s);
Instructor: STAFF
Description:

Law 6833 Alternative Dispute Resolution
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description:

Law 6837 Seminar: Contract Drafting
A-F only, 2 credit(s);
Instructor: STAFF
Description:

Law 6838 Seminar: American Indian Law
A-F only, 2 credit(s);
Instructor: Howland,Joan S
Description:

Law 6842 Seminar: Advanced Criminal Procedure
A-F only, 2 credit(s);
Instructor: STAFF
Description:

Law 6846 Seminar: Philosophy of Punishment
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description:

Law 6851 Seminar: Advanced Legal Research
A-F only, 2 credit(s);
Instructor: STAFF
Description:

Law 6854 Seminar: Biotechnology and Law
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Goodwin,Michele Bratcher
Description:

Law 6867 Seminar: International and Foreign Legal Research
A-F only, 2 credit(s);
Instructor: STAFF
Description:
Law 6872 Immigration Law  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description:

Law 6874 Seminar: Politics of Legal Policy  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Kritzer, Herbert M  
Description:

Law 6875 Seminar: Law, Health, and Life Sciences  
S-N only, 0.5-1 credit(s), max credits 1, 1 completion allowed;  
Instructor: STAFF  
Description:

Law 6876 Seminar: Digital Evidence  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description:

Law 6885 Seminar: Current Issues in Environmental & Energy Law  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description:

Law 6888 Creative Legal Analysis  
P-F only, 1 credit(s);  
Instructor: STAFF  
Description:

Law 6889 Laws of War  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description:

Law 6890 Seminar: China Law  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Wang, Chang  
Description:

Law 6892 Seminar: Comparative Criminal Procedure  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: STAFF  
Description:

Law 6895 Seminar: Offenses and Defenses  
A-F only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Duff, Antony  
Description:

Law 6904 Equal Justice  
A-F only, 3 credit(s);  
Instructor: STAFF  
Description: http://www.law.umn.edu/current/courseguide.html

Law 6949 Sem: Biotechnology & Patent Law  
A-F only, 2 credit(s);  
Instructor: Ellinger, Mark Stephen  
Description:
Law 7000 CL: Civil Practice  
A-F only, 1-7 credit(s), max credits 7;  
Instructor: STAFF  
Description:

Law 7001 CL: Civil Practice Director  
A-F only, 1-4 credit(s), max credits 4;  
Instructor: STAFF  
Description: http://www.law.umn.edu/current/courseguide.html

Law 7003 Seminar: Student Legal Writing Instructors  
A-F only, 2 credit(s), max credits 8, 4 completions allowed;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

Law 7004 Seminar: Structured Study Group Instructors  
S-N only, 2 credit(s), max credits 8, 4 completions allowed;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

Law 7008 CL: Insurance Law Clinic  
A-F only, 2-7 credit(s), max credits 7, 1 completion allowed;  
Instructor: Brownell, Margaret Schneidman  
Description:

Law 7009 CL: Insurance Law Directors  
A-F only, 2-6 credit(s), max credits 6, 1 completion allowed;  
Instructor: Brownell, Margaret Schneidman  
Description: Student may contact the instructor or department for information.

Law 7010 CL: Innocence  
A-F only, 2-3 credit(s), max credits 6;  
Instructor: STAFF  
Description:

Law 7012 CL: Environmental Sustainability-Land Use & Water Policy  
A-F only, 3-7 credit(s), max credits 7, 1 completion allowed;  
Instructor: Enzler, Sherry Anne  
Description:

Law 7013 CL: Environmental Sustainability Directors  
A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Enzler, Sherry Anne  
Description: Student may contact the instructor or department for information.

Law 7015 CL: Worker Rights  
A-F only, 2-4 credit(s), max credits 8;  
Instructor: STAFF  
Description:

Law 7016 CL: Workers Rights Directors  
A-F only, 2 credit(s), max credits 4;  
Instructor: STAFF  
Description:

Law 7017 International Humphrey Fellow Student Instructor  
A-F only, 1 credit(s);  
Instructor: Rudelius-Palmer, Kristi Lynn  
Description: Student may contact the instructor or department for information.
Law 7018 Intercollegiate Trial Team
   A-F only, 2 credit(s);
   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:

Law 7021 CL: Special Education Director
   A-F only, 2-3 credit(s), max credits 6;
   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;
   Instructor: STAFF
   Description: Student may contact the instructor or department for information.

Law 7030 CL: Consumer Protection
   A-F only, 3-4 credit(s), max credits 8;
   Instructor: STAFF
   Description:

Law 7031 CL: Consumer Protection Directors
   A-F only, 2-3 credit(s), max credits 6;
   Instructor: STAFF
   Description:

Law 7035 Environmental Law Moot Court
   A-F only, 1-2 credit(s), max credits 2;
   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;
   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;
   Instructor: STAFF
   Description: Student may contact the instructor or department for information.

Law 7040 CI: Community Mediation
   A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
   Instructor: Bulman, Karmit Julie
   Description:

Law 7041 CI: Community Mediation Directors
   A-F only, 2-3 credit(s), max credits 3, 1 completion allowed;
   Instructor: Bulman, Karmit Julie
   Description: Student may contact the instructor or department for information.

Law 7042 CI: Federal Immigration Litigation
   A-F only, 3-7 credit(s), max credits 7, 1 completion allowed;
   Instructor: Casper, Ben
   Description:
Law 7043 CI: Federal Immigration Litigation Director
   A-F only, 3 credit(s), max credits 6;
   Instructor: Casper, Ben
   Description: Student may contact the instructor or department for information.

Law 7045 ABA Journal of Labor and Employment Law
   S-N only, 1-3 credit(s), max credits 6;
   Instructor: STAFF
   Description: Student may contact the instructor or department for information.

Law 7046 ABA Journal of Labor and Employment Law Staff
   S-N only, 1-4 credit(s), max credits 4;
   Instructor: STAFF
   Description: Student may contact the instructor or department for information.

Law 7055 Maynard Pirsig Moot Court
   A-F only, 1-2 credit(s), max credits 2;
   Instructor: STAFF
   Description:

Law 7056 Maynard Pirsig 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 7057 Maynard Pirsig Moot Court Research Director
   A-F only, 1-2 credit(s), max credits 2;
   Instructor: STAFF
   Description: Student may contact the instructor or department for information.

Law 7058 Maynard Pirsig Moot Court Managing Director
   A-F only, 1 credit(s), max credits 2;
   Instructor: STAFF
   Description: Student may contact the instructor or department for information.

Law 7065 National Moot Court
   A-F only, 1-2 credit(s), max credits 2;
   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;
   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;
   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;
   Instructor: STAFF
   Description: http://www.law.umn.edu/current/courseguide.html
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;
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;
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;
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:

Law 7093 CL: Bankruptcy Clinic Director
A-F only, 1-4 credit(s), max credits 4;
Instructor: STAFF
Description:

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;
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;
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:

Law 7099 CL: Indian Child Welfare Clinic Director
A-F only, 1-4 credit(s), max credits 4;
Instructor: STAFF
Description:

Law 7100 Law Review Editors
S-N only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Law 7102 Law Review Staff Member
S-N 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
S-N only, 1-6 credit(s), max credits 9, 4 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Law 7201 Law and Inequality Journal Associate Editor
S-N 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
S-N 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:

Law 7247 CL: Housing Clinic Director
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Law 7300 Minnesota Journal of International Law
S-N 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
S-N only, 1-3 credit(s), max credits 6;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Law 7400 CL: Human Rights Litigation and International Legal Advocacy
A-F only, 3-7 credit(s), max credits 14;
Instructor: Green, Jennifer Mary
Description:
Law 7401 Clinic: Human Rights Litigation and International Legal Advocacy Directors
A-F only, 1-6 credit(s), max credits 12;
Instructor: Green, Jennifer Mary
Description: Student may contact the instructor or department for information.

Law 7501 CL: Criminal Justice Directors
A-F only, 1-4 credit(s), max credits 4;
Instructor: STAFF
Description:

Law 7551 CL: Criminal Justice
A-F only, 3-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Kappelhoff, Mark John
Description:

Law 7572 Clinic: Federal Defense
A-F only, 3 credit(s);
Instructor: STAFF
Description:

Law 7600 Minnesota Journal of Law, Science, and Technology
S-N only, 1-6 credit(s), max credits 6, 4 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Law 7602 Minnesota Journal of Law, Science, and Technology Staff
S-N only, 1-3 credit(s), max credits 6;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Law 7608 Independent Research
A-F only, 1-18 credit(s), max credits 18, 4 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Clary, Bradley G.
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Thomas, Laura M
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Weissbrodt, David
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Befort, Stephen Frank
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Cooper, Laura J
Description: Student may contact the instructor or department for information.
Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Cribari, Stephen Jon  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Okediji, Ruth L  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Karkkainen, Brad  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Hill, Claire  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Klass, Alexandra B.  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Cook, Nancy L.  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Moriearty, Perry Lane  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Monahan, Amy Buckley  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Roberts, Christopher Nigel  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Shen, Francis Xavier  
Description: Student may contact the instructor or department for information.

Law 7609 Independent Research--Field Placement Project  
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Fisher, David F  
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: http://www.law.umn.edu/current/courseguide.html
Law 7676 CL: Child Advocacy Director
  A-F only, 1-4 credit(s), max credits 4;
  Instructor: STAFF
  Description:

Law 7700 Off-Campus Legal Studies
  S-N only, 0-18 credit(s), max credits 36;
  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:

Law 7843 CL: Immigration Clinic Director
  A-F only, 1-4 credit(s), max credits 4;
  Instructor: STAFF
  Description:

Law 7844 Clinic: Detainee Rights
  A-F only, 3-4 credit(s), max credits 8;
  Instructor: Chan, Linus
  Description: Student may contact the instructor or department for information.

Law 7845 CL: Detainee Rights Clinic Director
  A-F only, 3 credit(s), max credits 9, 3 completions allowed;
  Instructor: Chan, Linus
  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: Business Law
  A-F only, 2-4 credit(s), max credits 8;
  Instructor: STAFF
  Description:

Law 7950 CL: Tax Clinic
  A-F only, 2-4 credit(s), max credits 4;
  Instructor: STAFF
  Description:

Law 7951 CL: Tax Clinic Director
  A-F only, 1-4 credit(s), max credits 4;
  Instructor: STAFF
  Description:

Learning and Academic Skills 340 Appleby Hall

LASk 1001 Mastering Skills for College Success
  2 credit(s);
  Instructor: Duffy, Corry
  Description: Student may contact the instructor or department for information.

LASk 1001 Mastering Skills for College Success
  2 credit(s);
Instructor: Quanbeck, Jo  
Description: Student may contact the instructor or department for information.

**LASk 1001 Mastering Skills for College Success**  
2 credit(s);  
Instructor: Dade, Shari N.  
Description: Student may contact the instructor or department for information.

**LASk 1001 Mastering Skills for College Success**  
2 credit(s);  
Instructor: Kim, Ryoka  
Description: Student may contact the instructor or department for information.

**LASk 1001 Mastering Skills for College Success**  
2 credit(s);  
Instructor: Li, Ziqiu  
Description: Student may contact the instructor or department for information.

**LASk 1101 Academic Refresher**  
S-N only, 1 credit(s);  
Instructor: Kim, Ryoka  
Description: Student may contact the instructor or department for information.

**LASk 1102 Academic Success**  
S-N only, 2 credit(s), max credits 4;  
Instructor: Quanbeck, Jo  
Description: Student may contact the instructor or department for information.

**LASk 1102 Academic Success**  
S-N only, 2 credit(s), max credits 4;  
Instructor: Li, Ziqiu  
Description: Student may contact the instructor or department for information.

**LASk 1102 Academic Success**  
S-N only, 2 credit(s), max credits 4;  
Instructor: Wilson, Robert Joseph  
Description: Student may contact the instructor or department for information.

**Liberal Studies 20 Ruttan Hall**

**LS 5100 Liberal Studies Seminar: Ethics and the Law**  
A-F only, 3 credit(s), max credits 24, 24 completions allowed;  
Instructor: Corley, Kathleen Hayes  
Description: <b>Ethics and the Law: Exploring the issues, standards, and policies that impact the operations of arts and cultural organizations from an ethical and legal framework</b> - Leadership calls on an individual to be able to stand with confidence on moral and legal grounds in the day to day operations and conduct of a business. By combining theory and practice, this course will explore the basis for human conduct and the source of moral and ethical behavior; examine standards, rules and laws that legislate conduct; and distinguish those situations when seeking legal guidance/advice is the only responsible option. Arts and cultural management issues arising from intellectual, real and personnel property rights; employment; earned-income ventures; and the myriad of issues that come with contributed income - conflict of interest, self-inurement, and exemption from federal and state income tax - will also be on the agenda. Prior experience in a non-profit or for-profit organization is recommended.

**LS 5100 Liberal Studies Seminar: Cultures of Resistance - Popular Movements**  
A-F only, 2 credit(s), max credits 24, 24 completions allowed;  
Instructor: Knutson, April A  
Description: <b>Cultures of Resistance - Popular Movements from Tahrir Square to Wall Street</b> - Examine the cultures and histories behind the popular uprisings that are sweeping the globe. Videos of these demonstrations of popular resistance to injustice and oppression will be viewed, beginning with a video by Asmaa Mahfouz that was the catalyst for the actions in Tahrir Square. Read and discuss a memoir by Egyptian activist Nawal el Saadawi and an autobiographical
novel by Algerian writer Assia Djebar to gain an understanding of the history of colonial and postcolonial oppression in North Africa. Memoirs by James Baldwin and Mary Crow Dog help us understand the history of oppression of African-Americans and Native Americans in the United States. During discussions with activists, past and present, we will compare the current mass movements in the U.S. to the civil rights and anti-war movements of the 1960s.

LS 5100 Liberal Studies Seminar: Designing Professional Futures
A-F only, 3 credit(s), max credits 24, 24 completions allowed;
Instructor: Tomsyck, John Peter
Description: This course supports the development of a meaningful, sustainable professional future, a unique Brand You. Personal development stories with focused preferences help shape the design of each student's own professional future. Each student develops a personalized professional design map, cumulatively evolved through weekly assignments. Professional self-development is bolstered by helpful suggestions from faculty. Shared experiences and suggestions provided by fellow students constitute a major resource throughout seminar.

LS 5100 Liberal Studies Seminar: Design Thinking for Innovation
A-F only, 3 credit(s), max credits 24, 24 completions allowed;
Instructor: Singh, Virajita
Description: We are in a time of profound societal change between old ways of thinking and doing and new ways that are still emerging. Innovation and new tools and process are needed to help make the change. Design thinking is a tool/process of great promise for this transition. Using the techniques that designers have used for ages, it is now possible for anyone who is willing to engage in creative thinking and action to participate in designing new ways of being and doing. This seminar is designed to introduce you to the emerging field of design thinking and how it is inspiring creativity and innovation at a local and national level. We will use immersion in writing, design and creativity exercises in class, individually and in groups, as a means of understanding the design thinking process in action. No prior design experience is required. Bringing insights and challenges from your particular disciplines to class discussions and activities is encouraged.

LS 5100 Liberal Studies Seminar: Monsters: A Cultural Obsession
A-F only, 2 credit(s), max credits 24, 24 completions allowed;
Instructor: Winternheimer, Alida Livia
Description: Mary Shelley’s Frankenstein dealt with anxiety over the scientific era and man’s ability to play god. Joss Whedon has said Buffy the Vampire Slayer began as a metaphor for the horrors of high school. Scott Poole, author of Monsters in America, says that monsters reveal ideology, and the creation of monsters is a cultural act. What scares us today and why? How do attitudes toward science and the cultural Other affect monster narratives? If we do not collectively believe in monsters, why do they persist in our literature? Why is there a resurgence in the literature of vampires, werewolves, and zombies in particular? Who or what are the real monsters in our world and do the literary monsters act as surrogates for something real? What should we make of mash-ups like Abraham Lincoln Vampire Hunter? What of monstrous superheroes, like the X-Men? Why are paranormal romances, like the witch/vampire story in A Discovery of Witches, so popular today? What does it mean that monsters are made familiar and fun for children in stories like Monsters, Inc. and Hotel Transylvania? Are films like The Human Centipede worthy of cultural critique, as in the discussion of torture, vengeance, the monster-in-man, and the existence of cruel underground subcultures? We will examine current monster literature in print and film such as 28 Days Later, Red Moon, The Last Werewolf, and others. Our literary readings will be paired with critical readings on the meaning of monsters, including social analysis. Students will have the opportunity to write both critically and creatively as they examine the social meaning and consequences of monster literature, and all that scares them individually. Throughout the course, students will engage in whole-class and small-group discussions. They will also write generative explorations of their ideas and experiences with monsters and the monstrous.

LS 5950 Special Topics: Fear
A-F only, 1 credit(s), max credits 12, 3 completions allowed;
Instructor: Dikel, William Robert
Description: Fear, an emotion experienced by all, is well known but little understood. Is it a negative emotion, to be avoided? If so, why are horror movies so popular? Does it exist to protect us from harm? If so, why are some people disabled from phobias such as Triskaidekaphobia (fear of the number 13) or even Arachibutyrophobia (fear of peanut butter sticking to the roof of the mouth)? This class examines the emotion of fear from multiple perspectives: evolutionary, cultural, neurobiological, psychiatric, theological, and sociological. We will examine fear as an agent of social control, a detriment to our health, a key component of entertainment, and a road block to fulfilling our human potential. Through lecture, discussion, and follow-up readings, participants will gain a multi-disciplinary perspective on fear, learn to recognize the underpinnings of fear, and learn practical methods of overcoming unnecessary, self-inhibiting fears. This one credit
seminar will meet for one day with a paper due 3 to 4 weeks after the meeting day.

LS 5950 Special Topics: Wisdom
A-F only, 1 credit(s), max credits 12, 3 completions allowed;
Instructor: Marboe, John Charles
Description: Student may contact the instructor or department for information.

LS 5950 Special Topics: How Can We Manage to Be Happy?
A-F only, 1 credit(s), max credits 12, 3 completions allowed;
Instructor: Hasselberg, John M.
Description: <b>How Can We Manage to Be Happy?</b> - We are at our best when we are happiest and happiest when we are at our best. Management bridges people, enabling us to build sustainable organizations and societies that foster human flourishing. W. Edwards Deming insisted that creating "joy on the job" is the fundamental role of management. David Cooperrider is lead developer of "A positive revolution in change: Appreciative Inquiry." As he and his colleagues define it, "Appreciative Inquiry is about the co-evolutionary search for the best in people, their organizations, and the relevant world around them." This evolution in post-positivist and social constructionist theories is a useful tool for building happier organizations and societies. The Bhutanese prefer to see their country judged by how high they are on a Gross National Happiness index rather than a Gross National Product index. This approach to socio-economic valuation is gathering growing attention in other nations. Surveys have consistently shown that Danes are the happiest workers in the world. To what can we attribute so much happiness in two disparate parts of the world? Explore what happiness is and how conceptions of it and frameworks for it have evolved from Aristotle to today. Examine what it means to live happier and more fulfilled lives: how to manage to find joy in our work and to help those whose work we are responsible for coordinating to find it. Explore organizational, theoretical, and applied frameworks involved in fostering such a shift. This one credit seminar will meet for one day with a paper due 3 to 4 weeks later.

LS 8001 Introduction to Interdisciplinary Inquiry
A-F only, 3 credit(s);
Instructor: Gonzalez, Anita
Description: Required introductory seminar for admitted MLS students. Emphasizes what individual students need to know or be able to do to successfully complete his or her individually crafted interdisciplinary program, including critical thinking, clear writing, and interdisciplinary research.

LS 8002 Final Project for Graduate Liberal Studies
A-F only, 3 credit(s);
Instructor: Johnson, Jack K
Description: Student may contact the instructor or department for information.

Linguistics  S205 Elliott Hall

Ling 1701 Language and Society
4 credit(s);
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);
Instructor: Olsen, Caroleedith
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The course introduces 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.
Ling 1910W Freshman Seminar: Linguistics and Biology  
3 credit(s), max credits 6; Meets CLE req of Writing Intensive  
Instructor: Gundel, Jeanette K  
Description: Student may contact the instructor or department for information.

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 Sciences  
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); 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); 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 from 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 4201 Syntax I  
3 credit(s); 3001 or 3001H or 5001 or instr consent Credit will not be granted if credit has been received for: LING 5201;  
Instructor: Halpert, Claire Danielle  
Description: Student may contact the instructor or department for information.

Ling 4302W Phonology I  
3 credit(s); 3001 or 3001H or 5001 or instr consent Credit will not be granted if credit has been received for: LING 5302; Meets CLE req of Writing Intensive  
Instructor: Lubowicz, Anna  
Description: How sounds are organized/patterned in human languages. Foundation in phonological theory/problem-solving for advanced work in phonology and other fields in linguistics. Analyzing data, presenting written solutions.

Ling 4901W Major Project Seminar
Ling 5106 Field Methods in Linguistics II
4 credit(s);
Instructor: Halpert, Claire Danielle
Description: Student may contact the instructor or department for information.

Ling 5201 Syntactic Theory I
3 credit(s); 3001 or 3001H or 5001 or instr consent
Credit will not be granted if credit has been received for: LING 4201;
Instructor: Soh, Hooi Ling
Description: This course is an introduction to syntax: the study of how words are organized into phrases and sentences. The objective is to introduce students to basic concepts and issues in current syntactic theory within the Principles and Parameters approach. We will focus on our knowledge of the structure of phrases and sentences, how such knowledge is represented, and what it reveals about the nature of human language. The course will be conducted through lectures and discussions. Course requirements include regular problem sets, a paper proposal, a final course paper and an in-class presentation of the paper. Target audience is graduate students in linguistics and related disciplines as well as undergraduate Honors students.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 40% final exam, 30% problem solving.
Exam Format: short answer

Ling 5206 Linguistic Pragmatics
3 credit(s);
Instructor: Reese, Brian Jon
Description: Student may contact the instructor or department for information.

Ling 5302 Phonological Theory I
3 credit(s); 3001 or 3001H or 5001 or instr consent
Credit will not be granted if credit has been received for: LING 4302W;
Instructor: Karvonen, Daniel
Description: This course is an introduction to phonology, which is the study of how sounds are organized and pattern in human languages. Have you ever wondered why the plural of some words in English is -s while for others it's -es? Why is it that in Spanish, a language related to English which also has -s as a plural, -es is used in cases where English uses just -s (English: paper~papers, Spanish: papel~papeles)? This course will introduce you to the core concepts in phonological theory and analysis, including distinctive feature theory, syllable theory, rule formulation and interactions, nonlinear phonology, and constraint-based phonology. This will be accomplished by analyzing data from a wide variety of languages, with students working on problem sets and presenting their solutions both in written form and in discussion in class. The course has two primary aims. First, it will give you a solid foundation in phonological theory and phonological problem solving in order to do advanced work in phonology or other fields in linguistics; and second, it will develop and refine your skills at analyzing data and presenting a convincing and well-argued written solution to a problem set, a skill that is useful in many fields.
Style: 75% Lecture, 25% Discussion.
Grading: 15% mid exam, 15% final exam, 48% reports/papers, 22% class participation.
Exam Format: essay, short answer

Ling 5462 Field Research in Spoken Language
3 credit(s); 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 ("Uh huh," "Yeah," etc.) to make sense of one another conduct in real-life social interaction. We will investigate how co-participants use these resources to give
attention, indicate listenership, and coordinate turn changes. We will also examine how speakers use prosody (changes in pitch and voice quality), laughter, gesture, body posture and timing to involve their listeners, complement/supplement their verbal messages, achieve co-tellership, negotiate opinions, and embody performances of emotion/assessment. The course will include hands-on practice in transcription of verbal and nonverbal behavior (hand, head, eye, facial expression and body movement) using computer software to analyze intonation and pause, and frame-by-frame video analysis. We will also practice identifying and characterizing gestures (iconic, metaphoric, deictic, and beat) and analyze their role in introducing referents, information presentation, topic structuring, repair, word searches, etc. Our data will come from conversations in a variety of languages, including English, Japanese, Ilokano, and German.

Style: 40% Lecture, 30% Discussion.
Grading: 30% written homework, 30% class participation, 40% other evaluation. Major paper, abstract, presentation; 30% Written homework and data collection
Exam Format: No exams

Ling 5601 Historical Linguistics
3 credit(s); 3001 or 3011H or 5001Credit will not be granted if credit has been received for: LING 3601;
Instructor: Harkness, John Underwood
Description: Student may contact the instructor or department for information.

Ling 5801 Introduction to Computational Linguistics
3 credit(s);
Instructor: Reese, Brian Jon
Description: This course is an introduction to the application of computational methods to natural languages, with a focus on both theoretical-linguistic issues and practical applications. Every level of linguistic organization is covered, including phonology, morphology, syntax, semantics and pragmatics. Specific topics include computational morphology and phonology, part-of-speech tagging, parsing, computational semantics, word sense disambiguation, coreference resolution and the analysis of discourse and dialogue. The course also introduces the basic formal tools in symbolic approaches to computational linguistics, such as regular expressions and finite-state automata, context-free grammars, feature structures and unification, in addition to recent corpus-based and stochastic methods.
Style: 70% Lecture, 20% Discussion, 10% Student Presentation.
Grading: 20% final exam, 30% reports/papers, 35% written homework, 5% attendance, 10% in-class presentation.

Ling 5900 Topics in Linguistics: Gender in Linguistic Structure
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Kac, Michael B
Description: Topics to be covered include defining gender, bases for gender classification (semantic, structural), gender in diachronic and psycholinguistic perspective, gender agreement and gender resolution.
Grading: The grade will be based on a paper (15-20 pp., double-spaced).

Ling 5900 Topics in Linguistics: Language and Food
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Szatrowski, Polly Ellen
Description: Linguistics 5900 (Sec 002) Topics in Linguistics: Language and Food (Polly Szatrowski) What could be more central to our lives than language and food? We learn language (together with gesture) and the tastes (textures, smells, visual features, and sounds) we associate with food early in our lives, and both form an important part of our identities. In this course, we will address the following questions: 1) How do we organize our language and bodies around food, i.e., how do we use them to get to and from the table, and to proceed in a meal (e.g., at a sushi restaurant)? 2) How do we use language to taste, identify and assess food, and how do these fine distinctions and discriminations define us as people and relate to our identity? 3) How do we talk about our experience of food and tell stories about food? 4) What metaphors do we have for food and how does language relate to gender in the context of food? 5) How is language used to socialize children around food? We will explore the relation between language and food by video recording and analyzing actual conversations among people eating a variety of foods, using a variety of languages, including English, Japanese, Chinese, Lao, Kri, Eegimaa, Wolof, Italian, Persian, German, Danish, and French. The class will be most rewarding for students who like to cook/eat, talk about food, and educate their palate. Prerequisite: LING 3001 or 3011 or 5001 OR permission of the instructor
Style: 30% Lecture, 40% Discussion, 30% Student Presentation.
Grading: 30% Major Paper, Abstract, Presentation 30% Data collection, Transcription, Written homework assignments 40% Class Participation and Preparation

Ling 5900 Topics in Linguistics: Language and Gender
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Sheldon PhD, Amy
Description: Language and Gender Taught with Anth 5980. Prereq: Introduction to Linguistics, Introduction to Linguistic Anthropology, or equivalent. Description: Description: Language and Gender Taught with Anth 5980. Prereq: Introduction to
Linguistics, or Introduction to Linguistic Anthropology, or the equivalent, or instr consent, 3 credits, Instructor: Sheldon,Amy
Description: This course will critically examine whether and how language and communicative practices construct and represent normative and non-normative sexualities and genders. Possible topics: gender socialization through language; genderlects; gender as binarity or multiplicity; gender as linguistic stylization; language issues in LGBT communities; sexist and nonsexist language; language reform; conversational and rhetorical practices that create dominance, subordination, silencing and resistance. Language contexts include, but are not limited to: everyday conversational interactions that create personal relationships, personal narratives, talk in public spaces (e.g., radio/TV/print media, classrooms, workplaces, online language), etc. Students will observe their own and others' everyday speech and will work with found or recorded examples. Term projects can be started early and developed with guidance across the semester. The focus is on English but comparisons across languages are welcome. Moodle enhanced. Electronic reserves and text. If you have questions, please contact Professor Amy Sheldon, asheldon@umn.edu

Style: 20% Lecture, 25% Discussion, 30% Small Group Activities, 20% Student Presentation, 5% Demonstration.
Grading: 50% reports/papers, 20% written homework, 10% attendance, 10% in-class presentation, 10% class participation. No exams.
Exam Format: n.a.

Ling 5900 Topics in Linguistics: Semantics as a Mental Phenomenon
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Hunter,Tim
Description: This course will discuss various efforts to incorporate the standard findings and methodologies of formal semantics, mainly using quantification as a case study, into the conception of language as an explicitly mental/cognitive phenomenon. How can proposals of the sort usually be made in the study of semantics be understood as -- or developed into -- hypotheses about cognitive systems? What sort of evidence can we use to test these cognitive hypotheses empirically? After reviewing some basic semantics, much of the course will be devoted to reading experimental research papers. Previous knowledge of semantics will be helpful, but certainly not necessary. Pre-requisites: LING 4201 or 5201 or instructor consent.

Ling 5900 Topics in Linguistics: Computing Meanings
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Hunter,Tim
Description: Introduction to mathematical and computational tools for assigning meanings to natural language sentences. Foundational skills for the development of formal models of human language syntax and semantics, and for practical applications of language technology such as text understanding and question-answering. Topics include logical inference predication, argument structure, and quantification; and syntactic structure and displacement. No previous knowledge of semantics is necessary. Pre-requisite: LING 4201 or 5201 or instructor consent.

Ling 5993 Directed Study
1-3 credit(s), max credits 10, 10 completions allowed;
Instructor: Reese,Brian Jon
Description: Student may contact the instructor or department for information.

Ling 5993 Directed Study
1-3 credit(s), max credits 10, 10 completions allowed;
Instructor: Szatrowski,Polly Ellen
Description: Student may contact the instructor or department for information.

Ling 5993 Directed Study
1-3 credit(s), max credits 10, 10 completions allowed;
Instructor: Gundel,Jeannette 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;
Instructor: Soh,Hooi Ling
Description: Student may contact the instructor or department for information.

Ling 5993 Directed Study
1-3 credit(s), max credits 10, 10 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;
Instructor: Halpert, Claire Danielle
Description: Student may contact the instructor or department for information.

Ling 5993 Directed Study
1-3 credit(s), max credits 10, 10 completions allowed;
Instructor: Hunter, Tim
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;
Instructor: Marcotte, Jean-Philippe
Description: Student may contact the instructor or department for information.

Ling 8106 Field Methods in Linguistics II
4 credit(s), max credits 8;
Instructor: Halpert, Claire Danielle
Description: Student may contact the instructor or department for information.

Ling 8888W Thesis Credit Dissertation Seminar
No Grade, 1-3 credit(s), max credits 24, 24 completions allowed;
Instructor: Marcotte, Jean-Philippe
Description: Student may contact the instructor or department for information.

Ling 8900 Seminar: Topics in Linguistics: Gender in Linguistic Structure
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Kac, Michael B
Description: Student may contact the instructor or department for information.

Ling 8900 Seminar: Topics in Linguistics: Semantics as a Mental Phenomenon
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Hunter, Tim
Description: Student may contact the instructor or department for information.

Ling 8900 Seminar: Topics in Linguistics: Computing Meanings
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Hunter, Tim
Description: Student may contact the instructor or department for information.

Ling 8991 Independent Study
1-4 credit(s), max credits 15, 15 completions allowed;
Instructor: Reese, Brian Jon
Description: Student may contact the instructor or department for information.

Ling 8991 Independent Study
1-4 credit(s), max credits 15, 15 completions allowed;
Instructor: Gundel, Jeanette K
Description: Student may contact the instructor or department for information.

Ling 8991 Independent Study
1-4 credit(s), max credits 15, 15 completions allowed;
Instructor: Soh, Hooi Ling
Description: Student may contact the instructor or department for information.

Ling 8991 Independent Study
1-4 credit(s), max credits 15, 15 completions allowed;
Instructor: Halpert, Claire Danielle
Description: Student may contact the instructor or department for information.
Ling 8991 Independent Study
1-4 credit(s), max credits 15, 15 completions allowed;
Instructor: Hunter, Tim
Description: Student may contact the instructor or department for information.

Management 3-353 Carlson School of Management

Mgmt 1001 Contemporary Management
A-F only, 3 credit(s);
Instructor: Hydrie, Yelena
Description: Student may contact the instructor or department for information.

Mgmt 1001 Contemporary Management
A-F only, 3 credit(s);
Instructor: Cooper, Diana C
Description: Student may contact the instructor or department for information.

Mgmt 1001H Honors: Contemporary Management
A-F only, 3 credit(s);
Instructor: Li, Min
Description: Student may contact the instructor or department for information.

Mgmt 1005 Corporate Responsibility and Ethics
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Kaufmann, Jeffrey Baer
Description: Student may contact the instructor or department for information.

Mgmt 1005 Corporate Responsibility and Ethics
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Maitland, Ian Hamilton
Description: Student may contact the instructor or department for information.

Mgmt 1005 Corporate Responsibility and Ethics
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Park, Rand
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: Fox, Isaac J
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 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 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 components 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: Online
Grading: See attached syllabus
Mgmt 3001 Fundamentals of Management
A-F only, 3 credit(s);
Instructor: Miller, Cameron Dee
Description: Student may contact the instructor or department for information.

Mgmt 3004 Business Strategy
A-F only, 3 credit(s); CSOM, soph or jr
Credit will not be granted if credit has been received for: MGMT 4004W;
Instructor: Benner, Mary Jo
Description: Business strategy. How business firms set and pursue their goals. Key categories of strategic issues and concepts/frameworks managers use to analyze and address those issues. Attention to specific firms and situations.

Mgmt 3004 Business Strategy
A-F only, 3 credit(s); CSOM, soph or jr
Credit will not be granted if credit has been received for: MGMT 4004W;
Instructor: Drill-Mellum, Richard D
Description: Student may contact the instructor or department for information.

Mgmt 3004 Business Strategy
A-F only, 3 credit(s); 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); 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.

Mgmt 3033W Business Communication
A-F only, 3 credit(s); Fr composition, CSOM upper-div, at least 60 cr
Credit will not be granted if credit already received for: BA 3033W or 3033VCredit will not be granted if credit has been received for: IBUS 3033W; Meets CLE req of Writing Intensive
Instructor: STAFF
Description: 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 emotions; --Demonstrate effective nonverbal communication skills; --Critically judge information and information sources; --Build sound arguments, using data and logic, when delivering a persuasive message; --Use technology to increase the effectiveness of communication. There is one, outside of class, required lab session for this course.

**Style:** 20% Lecture, 80% Discussion.
**Grading:** 10% mid exam, 40% reports/papers, 5% quizzes, 30% in-class presentation, 15% class participation.

**Mgmt 3033W Business Communication**
A-F only, 3 credit(s);Fr composition, CSOM upper-div, at least 60 cr credit will not be granted if credit already received for: BA 3033W or 3033V
Credit will not be granted if credit has been received for: IBUS 3033W
Meets CLE req of Writing Intensive
**Instructor:** Syverson MA, JoAnn
**Description:** BA 3033--Business Communications fosters and enhances students' cognitive abilities and communication skills. It helps students become credible professionals who can effectively contribute to organizations and communities and successfully employ a variety of communications strategies and skills. BA 3033, Business Communications combines writing and speaking into a single, semester-long course required of all Carlson School undergraduates. This course gives students opportunities to develop critical thinking and applied skills through both speaking and writing assignments that simulate real business communication. Students take part in writing, speaking, discussions, team-work and other communications activities. This course should help students to: Communicate credibly and deliver both written and spoken messages that are adapted to the specific needs of the audience and situation; Understand differences in message design and audience interpretation of the various forms of business communication; Realize the persuasive strategies most effective in writing and speaking situations; Understand the persuasive effect of presenting quantitative information and appealing to audience logic or emotions; Demonstrate effective nonverbal communication skills; Critically judge information and information sources; Build sound arguments, using data and logic, when delivering a persuasive message; Use technology to increase the effectiveness of communication.

**Style:** 20% Lecture, 80% Discussion.
**Grading:** 10% mid exam, 40% reports/papers, 40% in-class presentation, 10% class participation.

**Mgmt 3040 Understanding the International Environment of Firms: International Business**
A-F only, 2 credit(s);
**Instructor:** Singh, Gurneeta Vasudeva
**Description:** Student may contact the instructor or department for information.

**Mgmt 3602 Topics: Environmental Regulations**
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: ESPM 3602;
**Instructor:** Raudys, Leo
**Description:** Student may contact the instructor or department for information.

**Mgmt 3900 International Business Communication**
A-F only, 3 credit(s); Meets CLE req of Global Perspectives
**Instructor:** Littlefield, Holly A
**Description:** The goal of this course is to help students understand the impact of culture and communication on business interactions around the world. This discussion-based course should help you 1) Understand the dynamics of business communication in a culturally diverse world. 2) Understand the major processes, theories, and concepts of international business communication. 3) Recognize the influence of cultural factors on international business communication. 4) Minimize ethnocentrism and maximize mutual respect for other cultures. 5) Develop a mind-set that is conducive to communicating effectively in the culturally diverse world of international business. 6) Develop strategies and techniques that facilitate effective communication in the global world of business. Cultural studies and cross-cultural communication is a complex, multidisciplinary field. The course focuses on business culture and cross-cultural communication in a business context rather than on general country or regional cultural issues.

**Style:** 20% Lecture, 60% Discussion, 15% Small Group Activities, 5% Student Presentation.
**Grading:** 20% final exam, 30% reports/papers, 5% quizzes, 25% in-class presentation, 20% class participation.

**Mgmt 4000 Issues in Nonprofit Management**
A-F only, 4 credit(s);
**Instructor:** Spruth, Steve
**Description:** Student may contact the instructor or department for information.

**Mgmt 4008 Entrepreneurial Management**
A-F only, 4 credit(s);
Instructor: Nasser, Rich
Description: Student may contact the instructor or department for information.

Mgmt 4050 Management of Innovation and Change
A-F only, 2 credit(s);
Instructor: Spruth, Steve
Description: MGMT 4050: Management of Innovation and Change 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 by diagnosing a case of innovation or entrepreneurial of their own choosing. By learning these concepts 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 4100 Topics in Management
A-F only, 2 credit(s), max credits 8;
Instructor: Nord, Tobin Lawrence
Description: Student may contact the instructor or department for information.

Mgmt 4100 Topics in Management: Entrepreneurship and Musical Careers
A-F only, 4 credit(s), max credits 8;
Instructor: Sapienza, Harry Jack
Description: Student may contact the instructor or department for information.

Mgmt 4170W New Business Feasibility and Planning
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Beil, Frank J
Description: This course takes students through the process of new business opportunity identification and development. Students will identify and assess new business opportunities, by conducting feasibility analyses, and will further develop a new business idea through the creation of a formal business plan. The course involves a significant amount of outside work, as students are required to gather information about the feasibility of a particular business idea not only through the acquisition of secondary data but also by contacting potential customers, suppliers and other sources of primary data relevant to their business idea. The course also involves writing skills development, as it pertains to the production of a business plan, as students are required to produce a feasibility analysis documents as well as several drafts and a final version of a formal business plan.

Mgmt 4172 Entrepreneurship in Action II
A-F only, 4 credit(s);
Instructor: Stavig, John
Description: This course requires students to conceive, launch, and operate a real business. Students gain hands-on experience with all functional aspects including strategy, sales, marketing, finance, accounting, operations, human resources, supply chain and information technology. The course runs for two semesters, typically during a student’s senior year. In the fall, students identify a business opportunity, develop the concept, determine the resources required, and acquire the resources to launch the business. In the spring, the students implement the business plan, manage the business, and determine the exit strategy. NOTE: Application and 2-semester participation required.

Mgmt 4500 Senior Seminar in International Business
A-F only, 2 credit(s);
Instructor: Madzar, Svjetlana
Description: Student may contact the instructor or department for information.

Mgmt 6004 Negotiation Strategies
A-F only, 2 credit(s);
Instructor: Benraouane, Sid Ahmed
Description: Course Description This course is designed to provide students with an opportunity to learn about negotiation
strategies. Managers and leaders in modern organizations are faced with a variety of settings, in which they have to
develop a process of negotiating with a variety of stakeholders: employees, suppliers, alliance partners, owners and
investors, unions, and customers. While with some partners managers are in direct negotiation, with other partners,
managers engage in a subtle negotiation and indirect bargaining. Through a variety of reading, text analysis, discussion
and debate, our goal in this class is to understand the process and the context of negotiation, while at the same time
develop a negotiation competency that would allow us to use negotiation tactics effectively. Course Format This course will
be conducted entirely via Internet. The course is offered in an asynchronous mode, which means that the reading, the
questions and the discussion will be all posted online. No face to face meeting and no synchronous (real time virtual)
meeting. Requirements Weekly online participation: Between 600-900 words per week (40%) Final online quiz: (30%) Final
project (A paper or a case analysis 6-8 pages) (30%)

Mgmt 6004 Negotiation Strategies
A-F only, 2 credit(s);
Instructor: Li, Min
Description: Student may contact the instructor or department for information.

Mgmt 6031 Industry Analysis and Competitive Strategy
A-F only, 4 credit(s);
Instructor: Wang, Richard D
Description: Student may contact the instructor or department for information.

Mgmt 6032 Strategic Alliances
A-F only, 2 credit(s);
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);
Instructor: Fox, Isaac J
Description: Student may contact the instructor or department for information.

Mgmt 6034 Strategic Leadership
A-F only, 2 credit(s);
Instructor: Pavone, Carla
Description: Student may contact the instructor or department for information.

Mgmt 6035 Complex and Cross-Cultural Negotiations
A-F only, 2 credit(s);
Instructor: Vaaler, Paul Martin
Description: Effective negotiation is quintessential to business success. We tend to think of negotiations in domestic and
dyadic settings where the two actors are firms motivated by commercial aims. But really? big deals? are often more
complex. They cross cultural and political borders. They involve many actors, some of whom are not motivated by
commercial aims. This course helps you analyze and exploit these dimensions in high-stakes settings. Learn how?interest-based? versus ?positional? bargaining strategies fare in dyadic versus multi-player settings. Play the role of a
foreign firm negotiating the terms of a multi-year, multi-million dollar investment with a host-country government vulnerable
to ouster at the next election. Learn how to translate the commercial aims of business into dimensions attractive to
investors, employees, regulators and other stakeholders vital to the long-term success of an investment project. Come
away with fundamental principles and tactics for getting complex deals negotiated successfully and serving your firm as a
valued corporate diplomat in the global economy.
Style: 30% Lecture, 70% Discussion.
Grading: Two 2-3 page answers to class discussion questions (2 x 10% = 20%); three 5-6 page reflection papers on
previous class case simulation role-playing and discussion (3 x 20% = 60%); class attendance and participation (20%).

Mgmt 6040 International Strategy and Organization
A-F only, 2 credit(s);
Instructor: Singh, Gurneeta Vasudeva
Description: Student may contact the instructor or department for information.

Mgmt 6050 Management of Innovation and Change
A-F only, 2 credit(s);
Instructor: Spruth, Steve
Description:
Mgmt 6084 Management of Groups
A-F only, 2 credit(s); MBA student
Credit will not be granted if credit has been received for: HRIR 6084;
Instructor: Madzar, Svjetlana
Description: Student may contact the instructor or department for information.

Mgmt 6085 Corporate Strategy
A-F only, 4 credit(s);
Instructor: Kaul, Aseem
Description: This course examines issues of corporate strategy, including the choice of business portfolio and the various means available to a firm to grow or renew its scope. The first half of the course explores the sources of value from operating in multiple businesses, including the advantages and disadvantages of vertical integration, the costs and benefits of horizontal diversification and the challenges of managing a diversified firm. The second half of the course focuses on the means that firms use to grow or renew their business portfolio, studying the benefits and challenges associated with alliances, acquisitions and divestitures.

Mgmt 6100 Topics in Management
A-F only, 2 credit(s), max credits 4;
Instructor: Nord, Tobin Lawrence
Description: Student may contact the instructor or department for information.

Mgmt 6100 Topics in Management
A-F only, 2 credit(s), max credits 4;
Instructor: Vaaler, Paul Martin
Description: Firms competing in a knowledge economy depend increasingly on intellectual property ("IP"): patents, trademarks, copyrights, trade secrets, domain names. Adroit firms understand that IP-based competition demands close coordination between legal and strategic management executives. SMIP introduces you to fundamental IP concepts, competitive strategies and public policy challenges from legal and strategic management perspectives. Learn how the scope of IP protection and legal weaponry to vindicate IP rights has changed substantially in the past 15 years. Learn how IP management fits within a broader strategy for sustained profitability in high-tech industries. Learn how firm IP strategy to limit competitors is reconciled with antitrust policies promoting competition. Learn how managers price IP-protected products and services differently in developed versus developing economies. Come away with legal and managerial tools for applying IP-based strategies that will advance your firm and career.
Style: 30% Lecture, 70% Discussion.
Grading: 40% final exam, 30% quizzes, 30% class participation.
Exam Format: Final will be a take-home exam.

Mgmt 6305 The International Environment of Business
A-F only, 4 credit(s);
Instructor: Singh, Gurneeta Vasudeva
Description: Student may contact the instructor or department for information.

Mgmt 6402 Integrative Leadership: From Theory to Practice
A-F only, 3 credit(s); MBA student
Credit will not be granted if credit has been received for: PA 5105;
Instructor: White, Katie Marie
Description: This is an interdisciplinary, 3-credit seminar led by co-instructors from multiple schools of the university. Students will: a) learn to recognize and diagnose integrative leadership challenges and opportunities; b) build their own capacities to practice integrative leadership through group work in individualized peer-to-peer coaching in diverse teams and through being exposed to a range of boundary work practices; and c) gain better knowledge of the leadership contexts within their own profession and in other sectors. We emphasize contexts for integrative leadership at five basic levels: within individuals, within and across groups, within and across organizations, within and across sectors, and at the societal scale. Learning occurs through reading foundational materials, personal leadership coaching, engaging extensively with examples from guest speakers and case materials, developing a group capstone project on integrative leadership, and iteratively co-producing an understanding of what integrative leadership is. This course is sponsored by four departments. If PA 5105 shows as full, please check for space under the other departments - MGMT 6402, OLPD 6402, and PubH 6702. They are all for the same class, with the same instructors, meeting at the same time. Every section in all four schools must be filled before any over-ride permission numbers are issued. If all class sections are full, please contact Merrie Benasutti at the Center for Integrative Leadership (624-8300) for a permission number.
Style: 15% Lecture, 20% Discussion, 25% Small Group Activities, 10% Student Presentation, 15% Guest Speakers, 15% Web Based.
Grading: 30% reports/papers, 30% reflection paper, 20% class participation, 20% other evaluation. Participation in class-
Mgmt 8101 Theory Building and Research Design  
4 credit(s);  
Instructor: Van de Ven, Andrew Henry  
Description: Student may contact the instructor or department for information.

Mgmt 8405 Topics in Strategy II  
A-F only, 4 credit(s), max credits 8;  
Instructor: Forbes, Daniel P  
Description: Student may contact the instructor or department for information.

Management of Technology  
290 McNamara Center

MOT 4001 Leadership, Professionalism and Business Basics for Engineers  
A-F only, 2 credit(s);  
Instructor: Froggatt, Kirk  
Description: MOT 4001 is designed to provide scientists and engineers with a working knowledge of the broader business context within which technical ideas are translated into solutions that address customer needs and deliver commercial value to a firm. The course will broaden students' business knowledge and personal leadership abilities, enabling technical professionals to increase their business impact and career success. This two-credit course will build practical knowledge and skill in personal leadership and professionalism, effective communication, business fundamentals, and the process of innovation (i.e., transforming technical ideas into value creating solutions). The course content and the experiential learning approach are designed to reflect the real world requirements and challenges technical professionals need to master in order to thrive in collaborative project team environments. The course instructor has spent 25 years working for global technology companies including HP, Silicon Graphics, Yahoo!, Agilent Technologies, and Ecolab. 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% Class participation.

MOT 8111 Marketing Management for Technology-based Organizations  
A-F only, 2 credit(s);  
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);  
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);  
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 Macroenvironment of Technology  
A-F only, 2 credit(s);  
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);  
Instructor: Farmer II, Kenneth Rudolph  
Description: Student may contact the instructor or department for information.
MOT 8221 Project and Knowledge Management  
A-F only, 2 credit(s);  
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);  
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: Webster, Steve  
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;  
Instructor: Polla, Dennis L  
Description: Student may contact the instructor or department for information.

MOT 8920 Science and Technology Policy  
A-F only, 1.5 credit(s);  
Instructor: Polla, Dennis L  
Description: Student may contact the instructor or department for information.

MOT 8921 Global Management of Technology  
A-F only, 0-0.5 credit(s), max credits 0.5, 1 completion allowed;  
Instructor: Polla, Dennis L  
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;  
Instructor: Pletcher, Wayne A  
Description: Student may contact the instructor or department for information.

MOT 8950 International Management of Technology Project  
A-F only, 1.5 credit(s);  
Instructor: Polla, Dennis L  
Description: Student may contact the instructor or department for information.

Managerial Communications  4-300 Carlson School of Management

MCom 5510 Persuasive Writing in Business  
A-F only, 2 credit(s);  
Instructor: Syverson, 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);  
Instructor: Syverson, JoAnn  
Description: Student may contact the instructor or department for information.

Manufacturing Operations Management  20 Ruttan Hall

MM 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.

**Style:** Online

**Grading:** See attached syllabus

**MM 4011 Design of Manufacturing Systems and Simulations**

- **A-F only, 3 credit(s);**
- **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:** - group paper (8%) - 6 group projects (32%) - 13 online discussions (13%) - self-introduction (1%) - 6 individual exercises (12%) - final paper (20%) - 14 module evaluations (14%)

**MM 4012 Manufacturing Processes and Technology**

- **A-F only, 3 credit(s);**
- **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 or operations manager. 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 Description, 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. In this course you will learn how to dissect a manufacturing process into its component steps down to the raw fabrication steps of the included materials and components. You will practice how to study and control each step and how to combine the steps into a coherent and compatible production line. Methods follow the ISO 9001 Standard and specifically address major elements of Section 4 Quality Management System, Section 7 Product Realization, and Section 8 Measurement Analysis and Improvement.

- **Style:** Online
- **Grading:** See attached syllabus

**MM 4039 Manufacturing Outsourcing Decisions**

- **A-F only, 2 credit(s);**
- **Instructor:** Sandahl, Jack
- **Description:** Processes for establishment of value-add sourcing strategies through segmentation of products, processes, and components based on organizational core competencies. Key decision tools including make-buy financial analysis, and optimal source selection. Management of an outsource manufacturer relationship including contracts, and performance metrics. Controlling key supply chain factors for quality and value with reference to ISO 9001 purchasing and outsourced process controls. The course provides the framework and tools for establishing a strategic sourcing decision process within an organization. The student will apply the framework and demonstrate understanding of the process through a simulated sourcing decision project. The student will also be exposed to real-world situations through articles and case studies, and will be expected to demonstrate critical thinking in short essays and discussion forums related to the materials. There is one team collaborative project and presentation, a final exam, and individual presentation of the sourcing decision project.

This is a 2-credit, 7-week hybrid course, with 3 in-class and 4 online sessions.

**MM 4045 Regulated Industry Compliance**

- **A-F only, 3 credit(s);**
- **Instructor:** McKeen, Mac
- **Description:** Globalization has intensified the need for compliance with government regulations within manufacturing organizations. In this course, you will learn worldwide regulations and standards related to the design and manufacture of medical devices, one of the most rigorously regulated industries, under the auspices of compliant quality systems and facilities required to achieve product approvals that drive the strategic growth of the business. Course goals: 1. Understanding regulatory processes and their applications in the manufacturing technology industry. These processes include but are not limited to: * Verification and validation of mfg processes * Standards and classifications of FDA, ISO, etc. * OSHA/HAZMAT/Environmental * Risk Management and PFMEA . 2. Identification and analysis of the differing compliance agencies and their purposes. This would include inspections, internal and external audits, recalls, and the governing bodies (national and international) associated with compliance. 3. Interpretation and explanation of the ethical ramifications and dilemmas associated with regulatory requirements and 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.

**MM 4311 Sustainable Lean Manufacturing**
- **A-F only, 2 credit(s);**
- **Instructor:** Nied, Paul Joseph
- **Description:** Overview of sustainability and lean practices in manufacturing operations. Topics include concepts; history; metrics for auditing and improving processes; product, operations, and supply chain planning; communicating value and results; impact of business, environment, and social value. Additionally, alignment between sustainable lean practices and ISO 9001 and ISO 14001 is explored. Prepares the student to propose a strategy to assess and improve sustainable lean practices via a case study. Weekly in-class quizzes support the lecture and video content. Hands-on activities and a simulation exercise demonstrating the various principles are interspersed. Two exams measure the content knowledge and a capstone case study measures the student's ability to apply the content in a real-life manufacturing setting. Students are expected to respond to weekly, instructor-provided discussion questions and participate in ongoing discussion question dialogue with their cohorts. This is a 2-credit 7-week hybrid course.

**MM 4501 Capstone**
- **A-F only, 3 credit(s);**
- **Instructor:** King, William Tyler
- **Description:** Capstone project in consultation with faculty adviser/instructor. Independent investigation of manufacturing subject/challenge.

**MM 4596 Internship**
- **A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;**
- **Instructor:** King, William Tyler
- **Description:** Capstone project. Develop a part or product from the requirement definition through prototype fabrication. Including: definition of product requirements, development of product and tooling design, analysis, definition of fabrication process, development of quality assurance plan, fabrication of prototype, inspection and testing.

**Manufacturing Technology** 20 Ruttan Hall

**MT 3111 Elements of Microelectronic Manufacturing**
- **A-F only, 3 credit(s);**
- **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);**
- **Instructor:** Cibuzar, Gregory Thomas
- **Description:** Lab covers the basic process steps to make top-down micro and nano scaled structures. Specific topics include oxidation, photolithography, electron beam lithography, chemical vapor deposition, etching, rapid thermal annealing, wet chemical etching, and plasma etching, and plasma etching. Students will also build a test chip containing a variety of micro mechanical structure as part of the lab. The final lab will involve an evaluation of the operation of these structures (11 four-hour labs)

**MT 3121 Thin Films Deposition**
- **A-F only, 3 credit(s);**
- **Instructor:** Tran, Nang
- **Description:** This course will give students the opportunity to know and work with thin film metals and oxides. Exposure to photo lithography and methods of deposition the HV and UHV range including vacuum evaporation, sputtering methods and chemical vapor deposition. (Prereq. MECT 2293)

**MT 3142 Nanoparticle Technology and Engineering Laboratory**
- **A-F only, 1 credit(s);**
- **Instructor:** Oh, Sang-Hyun
- **Description:** Overview of the challenges and available tools for measuring the properties of nanoaerosols. Topics include optical particle counters, condensation particle counters, differential mobility analysis, electrosprays, atomizers, and single particle mass spectrometers.
Mktg 3001 Principles of Marketing
A-F only, 3 credit(s);
Instructor: Upton, Kevin John
Description:

Mktg 3001 Principles of Marketing
A-F only, 3 credit(s);
Instructor: Van Etten, Julia A.
Description: Student may contact the instructor or department for information.

Mktg 3001 Principles of Marketing
A-F only, 3 credit(s);
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. After taking this course, you'll never look at marketing—whether in the form of advertising, retailing, or personal selling—in quite the same way. You will be introduced to terms, concepts, and skills needed for analyzing marketing problems. The course will help you explore those factors in an outside 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. <p class="video"> <iframe width="560" height="315" src="//www.youtube.com/embed/zzmkMaFpgLM?rel=0" frameborder="0" allowfullscreen></iframe> </p>
Style: Online
Grading: See attached syllabus
Exam Format: Online exams

Mktg 3001 Principles of Marketing
A-F only, 3 credit(s);
Instructor: Jordan, Michael Stephen
Description:
Style: 20% Lecture, 30% Discussion, 25% Small Group Activities, 25% Web Based.
Grading: 5% special projects, 70% quizzes, 15% written homework, 10% class participation.
Exam Format: Multiple choice and true/false

Mktg 3001 Principles of Marketing
A-F only, 3 credit(s);
Instructor: Mittal, Chiraag
Description:

Mktg 3010 Marketing Research
A-F only, 4 credit(s);
Instructor: Xu, Linli
Description: Student may contact the instructor or department for information.

Mktg 3040 Buyer Behavior
A-F only, 4 credit(s);
Instructor: Lipe, Jay
Description: Student may contact the instructor or department for information.

Mktg 4030 Sales Management
A-F only, 4 credit(s);
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);
Instructor: Griskevicius, Vladas
Mktg 4060 Marketing Channels
A-F only, 4 credit(s);
Instructor: Belich PhD, Thomas James
Description: Student may contact the instructor or department for information.

Mktg 4080W Marketing Strategy
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Zhu, Yi
Description: Student may contact the instructor or department for information.

Mktg 4080W Marketing Strategy
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Goodyear, Steve
Description: Student may contact the instructor or department for information.

Mktg 4082W Brand Management
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Lipe, Jay
Description: Student may contact the instructor or department for information.

Mktg 4092H Globalization, Culture, and Brands
A-F only, 2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Mktg 6051 Marketing Research
A-F only, 4 credit(s);
Instructor: Vitorino, Maria Ana
Description:

Mktg 6055 Buyer Behavior
A-F only, 4 credit(s);
Instructor: Marinovich, John
Description: Student may contact the instructor or department for information.

Mktg 6073 Technology Marketing
A-F only, 4 credit(s);
Instructor: Hutton, David Allen
Description: Student may contact the instructor or department for information.

Mktg 6075 Pricing Strategy
A-F only, 4 credit(s);
Instructor: Rao, Akshay R
Description: Student may contact the instructor or department for information.

Mktg 6075 Pricing Strategy
A-F only, 4 credit(s);
Instructor: Werner, Seth E
Description: Student may contact the instructor or department for information.

Mktg 6082 Brand Management
A-F only, 4 credit(s);
Instructor: Van Etten, Julia A.
Description: Student may contact the instructor or department for information.

Mktg 6082 Brand Management
A-F only, 4 credit(s);
Instructor: John, Deborah Roedder
Description: Student may contact the instructor or department for information.

Mktg 6088 Strategic Marketing
A-F only, 2 credit(s);
Instructor: Mueller, Wayne G
Description: Student may contact the instructor or department for information.

Mktg 8809 Consumer Behavior Research Methods
A-F only, 2 credit(s);
Instructor: John, Deborah Roedder
Description: Student may contact the instructor or department for information.

Mktg 8810 Consumer Behavior Special Topics
A-F only, 2 credit(s), max credits 4;
Instructor: Torelli, Carlos
Description: Student may contact the instructor or department for information.

Mktg 8890 Seminar: Marketing Topics
4 credit(s), max credits 8;
Instructor: Vitorino, Maria Ana
Description: Student may contact the instructor or department for information.

Master of Business Administration 2-210 Carlson School of Management

MBA 6030 Financial Accounting
A-F only, 3 credit(s);
Instructor: Kramer, Jack
Description: Student may contact the instructor or department for information.

MBA 6035 Managerial Accounting
A-F only, 3 credit(s);
Instructor: Kirscht, Carrie Lynn
Description: Student may contact the instructor or department for information.

MBA 6110 Management and Organizational Behavior
A-F only, 2 credit(s); MBA student Credit will not be granted if credit has been received for: MGMT 6110;
Instructor: Kammeyer-Mueller, John Daniel
Description: Student may contact the instructor or department for information.

MBA 6110 Management and Organizational Behavior
A-F only, 2 credit(s); MBA student Credit will not be granted if credit has been received for: MGMT 6110;
Instructor: Leroy, Sophie
Description: Student may contact the instructor or department for information.

MBA 6120 Data Analysis and Statistics for Managers
A-F only, 3 credit(s);
Instructor: Papp, Oliver
Description: Student may contact the instructor or department for information.

MBA 6120 Data Analysis and Statistics for Managers
A-F only, 3 credit(s);
Instructor: Huchendorf, Steven Craig
Description: Student may contact the instructor or department for information.

MBA 6140 Managerial Economics
A-F only, 2 credit(s);
Instructor: Waldfogel, Joel
Description: Student may contact the instructor or department for information.
MBA 6210 Marketing Management
A-F only, 3 credit(s);
Instructor: Werner, Seth E
Description: Student may contact the instructor or department for information.

MBA 6220 Operations Management
A-F only, 3 credit(s);
Instructor: Huchendorf, Steven Craig
Description: Student may contact the instructor or department for information.

MBA 6220 Operations Management
A-F only, 3 credit(s);
Instructor: Shah, Rachna
Description: Student may contact the instructor or department for information.

MBA 6230 Financial Management
A-F only, 3 credit(s);
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;
Instructor: White, Paul Andrew
Description: Student may contact the instructor or department for information.

MBA 6240 Information Technology Management
A-F only, 2 credit(s);
Instructor: Ray, Gautam
Description: Student may contact the instructor or department for information.

MBA 6300 Strategic Management
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

MBA 6315 The Ethical Environment of Business
A-F only, 2 credit(s);
Instructor: Kaufmann, Jeffrey Baer
Description: Student may contact the instructor or department for information.

MBA 6315 The Ethical Environment of Business
A-F only, 2 credit(s);
Instructor: Maitland, Ian Hamilton
Description: Student may contact the instructor or department for information.

MBA 6315 The Ethical Environment of Business
A-F only, 2 credit(s);
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;
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;
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;
Instructor: Nord, Tobin Lawrence
Description: Student may contact the instructor or department for information.

MBA 6504 Carlson Consulting Enterprise
OPT No Aud, 2-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Gisser, Sarah Smith
Description: Student may contact the instructor or department for information.

MBA 6505 Carlson Brand Enterprise
OPT No Aud, 2-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Hopkins, David K
Description: Student may contact the instructor or department for information.

Master of Business Taxation
3-110 Carlson School of Management

MBT 5220 Tax Research, Communication, and Practice
A-F only, 4 credit(s);
Instructor: Gutterman, 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: 75% Lecture, 5% Discussion, 20% 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);
Instructor: Conlon, Roger John
Description: Student may contact the instructor or department for information.

MBT 5323 Mergers and Acquisitions I
A-F only, 2 credit(s);
Instructor: Conlon, Roger John
Description: Student may contact the instructor or department for information.

MBT 5340 Taxation of Partners and Partnerships
A-F only, 2 credit(s);
Instructor: Luecke, Scott M
Description: Student may contact the instructor or department for information.

MBT 5346 ASC 740 Computations and Analysis
A-F only, 2 credit(s);
Instructor: Frank, Nicholas
Description: Student may contact the instructor or department for information.

MBT 5348 Advanced ASC 740 Concepts
A-F only, 2 credit(s);
Instructor: Frank, Nicholas
Description: Student may contact the instructor or department for information.

MBT 5350 Wealth Transfer I (Estates and Gifts)
A-F only, 2 credit(s);
Instructor: Skonnord, Eric Jenal
Description: This course covers fundamental estate planning techniques utilizing a case study method. Topics include a review of non-tax concepts, tax planning tools, estate tax planning strategies, and business succession planning.

MBT 5360 State and Local Taxation
A-F only, 2 credit(s);
Instructor: Pechacek, Maureen E
Description: This course covers state imposition of corporate income, sales, and use taxes. Topics include tax problems of businesses with multistate operations such as nexus, unitary business, apportionment factors, nonbusiness income, and taxable transactions.

MBT 5360 State and Local Taxation
A-F only, 2 credit(s);
Instructor: Busacker, Dale Herman
Description: This course covers state imposition of corporate income, sales, and use taxes. Topics include tax problems of businesses with multistate operations such as nexus, unitary business, apportionment factors, nonbusiness income, and taxable transactions.

MBT 5381 Tax Aspects of International Business II
A-F only, 2 credit(s);
Instructor: Gilligan, Joseph Brian
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;
Instructor: Gutterman, Paul Gerard
Description: Student may contact the instructor or department for information.

MBT 5500 Business, Government, and Economic Tax Policy
A-F only, 2 credit(s);
Instructor: Conlon, Roger John
Description: Student may contact the instructor or department for information.

Master of Development Practice

MDP 5002 Research Methods for Sustainable Livelihoods
A-F only, 4 credit(s);
Instructor: Wilsey PhD, David Scott
Description: Student may contact the instructor or department for information.

MDP 5003 Field Study Pre-Departure Seminar
OPT No Aud, 1 credit(s);
Instructor: Johnstone, Christopher J
Description: Student may contact the instructor or department for information.

MDP 5200 Capstone Workshop in Development Practice
A-F only, 3 credit(s);
Instructor: Wilsey PhD, David Scott
Description: Student may contact the instructor or department for information.

Materials Science 151 Amundson Hall

MatS 2001 Introduction to the Science of Engineering Materials
A-F only, 3 credit(s);
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);**
- **Instructor:** Schott, Jeffrey H.
- **Description:** Student may contact the instructor or department for information.

### MatS 3002 Mass Transport and Kinetics

- **A-F only, 3 credit(s);**
- **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 3002 Mass Transport and Kinetics

- **A-F only, 3 credit(s);**
- **Instructor:** Shores, David A
- **Description:** Student may contact the instructor or department for information.

### MatS 3011 Introduction to Materials Science and Engineering

- **3 credit(s);**
- **Instructor:** Jalan, Bharat
- **Description:** Student may contact the instructor or department for information.

### MatS 3041 Industrial Assignment I

- **A-F only, 2 credit(s); 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, MatS upper div, regis in MatS co-op program, completion of required courses in MatS program through Fall semester/3rd yr) First industrial work assignment in engineering co-op program. Evaluation based on formal written report describing the semester's work assignment.
- **Style:** On-the-job training
- **Grading:** 100% reports/papers.

### MatS 3851W Materials Properties Lab

- **A-F only, 4 credit(s); Meets CLE req of Writing Intensive**
- **Instructor:** Manno, Michael A
- **Description:** Student may contact the instructor or department for information.

### MatS 3851W Materials Properties Lab

- **A-F only, 4 credit(s); Meets CLE req of Writing Intensive**
- **Instructor:** Manno, Michael A
- **Description:** Student may contact the instructor or department for information.

### MatS 4041 Industrial Assignment II

- **A-F only, 2 credit(s); 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);
Instructor: Lodge, Timothy P
Description: Student may contact the instructor or department for information.

MatS 4223W Polymer Laboratory
2 credit(s); 4214 or CHEM 4214 or CHEM 4221 or 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: Reineke PhD, Theresa Marie
Description: Student may contact the instructor or department for information.

MatS 4301W Materials Processing
A-F only, 4 credit(s); 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); Sr MatS major
Credit will not be granted if credit has been received for: MATS 4402;
Instructor: Holmes, Russell James
Description: Student may contact the instructor or department for information.

MatS 4402 Senior Design Thesis II
A-F only, 2 credit(s); 4401
Credit will not be granted if credit has been received for: MATS 4400;
Instructor: Holmes, Russell James
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;
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;
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;
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: Flannigan, David James
Description: Student may contact the instructor or department for information.

MatS 5531 Electrochemical Engineering
3 credit(s); MatS 3011 or instr consent, upper div CSE 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);
Instructor: Morse, David Clark
Description: Student may contact the instructor or department for information.

MatS 8004 Mechanical Properties
   A-F only, 3 credit(s);
   Instructor: Derby, Jeffrey Jay
Description: Student may contact the instructor or department for information.

MatS 8211 Physical Chemistry of Polymers
   4 credit(s); Undergrad physical chem or instr consent Credit will not be granted if credit has been received for:
   CHEM 8211;
   Instructor: Bates, Frank S
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: Holmes, Russell James
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: Holmes, Russell James
Description: Student may contact the instructor or department for information.

Mathematics 127 Vincent Hall

Math 1001 Excursions in Mathematics
   3 credit(s); Meets CLE req of Mathematical Thinking
   Instructor: Knoche, Randolph Lee Granheim
Description: Student may contact the instructor or department for information.

Math 1031 College Algebra and Probability
   3 credit(s); 3 yrs high school math or 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 Credit will not be granted if credit has been received for: MATH 1051; Meets CLE req of Mathematical Thinking
   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.

Math 1031 College Algebra and Probability
   3 credit(s); 3 yrs high school math or 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 Credit will not be granted if credit has been received for: MATH 1051; Meets CLE req of Mathematical Thinking
   Instructor: Kinney, Pat
   Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Math 1031 is a course in algebra and analytic geometry beyond the usual coverage found in a three-year high school mathematics program. This course is equivalent to Math 1051, Precalculus I (3 credits). This course covers topics on solving equations and inequalities, and explores straight lines and functions in general. The functions discussed include exponential and logarithmic functions. You will learn to analyze certain functions and draw their graphs. The course will also teach you how to solve systems of equations and the use of certain sequences of numbers. You will also learn counting techniques and basic probability concepts.
   Style: Online
   Grading: See attached syllabus
   Exam Format: Supervised, in-person (not online) exams.

Math 1038 College Algebra and Probability Submodule
Math 1051 Precalculus I
3 credit(s); 3 yrs of high school math or 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 Credit will not be granted if credit has been received for: MATH 1031; Meets CLE req of Mathematical Thinking
Instructor: Kinney, Pat
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 Intensive Precalculus and satisfies the prerequisite for Math 1271 or Math 1371. Math 1051 and Math 1038 essentially equals Math 1031 and satisfies the CLE Mathematical Thinking requirement.
Style: 75% Lecture, 25% Discussion.
Grading: 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 1111 College Algebra, Trigonometry, and Precalculus
A-F only, 3 credit(s); Meets CLE req of Mathematical Thinking
Instructor: Bright, Jered Bryan
Description: Student may contact the instructor or department for information.

Math 1111 College Algebra, Trigonometry, and Precalculus
A-F only, 3 credit(s); Meets CLE req of Mathematical Thinking
Instructor: Ballam, Christian Gary
Description: Student may contact the instructor or department for information.

Math 1111 College Algebra, Trigonometry, and Precalculus
A-F only, 3 credit(s); Meets CLE req of Mathematical Thinking
Instructor: Walla, Rajeev
Description: Student may contact the instructor or department for information.

Math 1142 Short Calculus
4 credit(s); Meets CLE req of Mathematical Thinking
Instructor: STAFF
Description: Overview: A one-semester tour of differential and integral calculus in one variable, and differential calculus in
Math 1142 Short Calculus
4 credit(s); Meets CLE req of Mathematical Thinking
Instructor: Corbett, John
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. 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. 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 of certain functions.
Style: This is a printed correspondence section.
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams

Math 1151 Precalculus II
3 credit(s); Satisfactory score on placement exam or grade of at least C- in [1031 or 1051] credit will not be granted if credit received for: Math1155Credit will not be granted if credit has been received for: MATH 1155; Meets CLE req of Mathematical Thinking
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 refresher 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.
Style: This is a printed correspondence section.
Grading: See attached syllabus
Exam Format: Supervised, in-person exams

Math 1171 Calculus, Modeling, and Data I
A-F only, 3 credit(s); Meets CLE req of Mathematical Thinking
Instructor: Huq, Aminul
Description: Student may contact the instructor or department for information.

Math 1271 Calculus I
4 credit(s); 4 yrs high school math including trig or 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 1371; Meets CLE req of Mathematical Thinking
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; average value of a function. Audience: The beginning 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); 4 yrs high school math including trig or 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 1371; Meets CLE req of Mathematical Thinking
Instructor: Nash, Jennie Elizabeth
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Differential calculus of functions of a single variable, including polynomial, rational, exponential, and trig functions. Applications, including optimization and related rates problems. Single variable integral calculus, using anti-derivatives and simple substitution. Applications may include area, volume, work problems.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams.

Math 1272 Calculus II
4 credit(s); [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); [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: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. 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: See attached syllabus
Exam Format: Supervised, in-person exams

Math 1372 CSE Calculus II
4 credit(s); Grade of at least C- in [1371 or equiv], CSE or pre-Bioprod/Biosys Engr Credit will not be granted if credit has been received for: MATH 1272;
Instructor: O'Hara, Eoin Joseph
Description: Student may contact the instructor or department for information.

Math 1372 CSE Calculus II
4 credit(s); Grade of at least C- in [1371 or equiv], CSE or pre-Bioprod/Biosys Engr Credit will not be granted if credit has been received for: MATH 1272;
Instructor: Miracle, Chester L
Description: Student may contact the instructor or department for information.

Math 1372 CSE Calculus II
4 credit(s); Grade of at least C- in [1371 or equiv], CSE or pre-Bioprod/Biosys Engr Credit will not be granted if credit has been received for: MATH 1272;
Instructor: Huang, Jia
Description: Student may contact the instructor or department for information.

Math 1572H Honors Calculus II
A-F only, 4 credit(s); 1571H, honors student, permission of University Honors Program Credit will not be granted if
Math 2171 Calculus, Modeling, and Data II
A-F only, 3 credit(s); Meets CLE req of Mathematical Thinking
Instructor: Huq, Aminul
Description: Student may contact the instructor or department for information.

Math 2243 Linear Algebra and Differential Equations
4 credit(s); [1272 or 1282 or 1372 or 1572] w/grade of at least C-Credit will not be granted if credit has been received for: MATH 2373;
Instructor: Hewitt, Harlan A
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. In this course you will study the concepts of linear algebra and differential equations. You'll 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'll probably find it helpful to review the calculus of one variable.
Style: This is a printed correspondence section.
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams

Math 2263 Multivariable Calculus
4 credit(s); [1272 or 1372 or 1572] w/grade of at least C-Credit will not be granted if credit has been received for: MATH 2374;
Instructor: STAFF
Description: Overview: Multivariable calculus: Curves in space, arc length and curvature, velocity and acceleration. Limits and continuity, partial differentiation, local extrema, exact differentials, chain rule, directional derivative and gradient, Lagrange multipliers, 2nd derivative test. Double integration, volume and other applications, polar coordinates, triple integration, cylindrical and spherical coordinates. Vector analysis: Vector fields, line integrals, path independence, Green's Theorem, surface integrals, Theorems of Gauss and Stokes. Audience: Part of the standard 2nd year calculus course for students outside of IT.
Math 2283 Sequences, Series, and Foundations
3 credit(s); Concurrent registration is required (or allowed) in 2243 or Concurrent registration is required (or allowed) in 2263 or Concurrent registration is required (or allowed) in 2373 or Concurrent registration is required (or allowed) in 2374 w/grade of at least C-Credit will not be granted if credit has been received for: MATH 3283W;
Instructor: Ciocan-Fontanine, Ionut
Description: Student may contact the instructor or department for information.

Math 2373 CSE Linear Algebra and Differential Equations
4 credit(s); [1272 or 1282 or 1372 or 1572] w/grade of at least C-, CSE or pre-Bio Prod/Biosys Engr Credit will not be granted if credit has been received for: MATH 2243;
Instructor: Anderson, Greg William
Description: Student may contact the instructor or department for information.

Math 2374 CSE Multivariable Calculus and Vector Analysis
4 credit(s); [1272 or 1282 or 1372 or 1572] w/grade of at least C-, CSE or pre-Bioprod/Biosys Engr Credit will not be granted if credit has been received for: MATH 2263;
Instructor: Lawson, Tyler
Description: Student may contact the instructor or department for information.

Math 3283W Sequences, Series, and Foundations: Writing Intensive
4 credit(s); Concurrent registration is required (or allowed) in 2243 or Concurrent registration is required (or allowed) in 2263 or Concurrent registration is required (or allowed) in 2373 or Concurrent registration is required (or allowed) in 2374 w/grade of at least C-Credit will not be granted if credit has been received for: MATH 2283; Meets CLE req of Writing Intensive
Instructor: Mosher, Bryan
Description: Student may contact the instructor or department for information.

Math 3593H Honors Mathematics II
Math 4065 Theory of Interest  
A-F only, 4 credit(s);  
Instructor: Finnegan, Tim Patrick  
Description: Student may contact the instructor or department for information.

Math 4065 Theory of Interest  
A-F only, 4 credit(s);  
Instructor: Schwartzbauer, Thomas  
Description: Student may contact the instructor or department for information.

Math 4065 Theory of Interest  
A-F only, 4 credit(s);  
Instructor: Richins, Breanne Larsen  
Description: Student may contact the instructor or department for information.

Math 4067W Actuarial Mathematics in Practice  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Vescelius, Doreen Karol  
Description: Student may contact the instructor or department for information.

Math 4152 Elementary Mathematical Logic  
3 credit(s); one soph math course or instr consent  
Credit will not be granted if credit has been received for: MATH 5165;  
Instructor: Messing, William  
Description: Contact ugrad@math.umn.edu <mailto:ugrad@math.umn.edu> for information.

Math 4242 Applied Linear Algebra  
4 credit(s); 2243 or 2373 or 2573  
Credit will not be granted if credit has been received for: MATH 4457;  
Instructor: Sell, George R  
Description: (Tentative description) This is the basic course in linear algebra, with applications. Topics include: linear transformations, matrix calculus, solutions of systems of linear equations, null space, range, rank-nullity theorem, orthogonality, orthogonal projections, fundamental theorem of linear algebra, SVD decompositions, bilinear forms, groups of linear operators. Selected Applications, for example: Gram-Schmidt process, Least-squares approximations, computer graphics and perspective.  
Style: 100% Lecture.  
Exam Format: problem solving

Math 4242 Applied Linear Algebra  
4 credit(s); 2243 or 2373 or 2573  
Credit will not be granted if credit has been received for: MATH 4457;  
Instructor: Conn, Jack Frederi  
Description: Student may contact the instructor or department for information.

Math 4242 Applied Linear Algebra  
4 credit(s); 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 4242 Applied Linear Algebra  
4 credit(s); 2243 or 2373 or 2573  
Credit will not be granted if credit has been received for: MATH 4457;  
Instructor: Pylyavskyy, Pavlo  
Description: Student may contact the instructor or department for information.

Math 4281 Introduction to Modern Algebra  
4 credit(s);  
Instructor: Miller, Alexander Rossi  
Description: Student may contact the instructor or department for information.
Math 4281 Introduction to Modern Algebra
  4 credit(s);
  Instructor: Berkesch Zamaere, Christine
  Description: Student may contact the instructor or department for information.

Math 4281 Introduction to Modern Algebra
  4 credit(s);
  Instructor: Witt, Emily E
  Description: Student may contact the instructor or department for information.

Math 4428 Mathematical Modeling
  4 credit(s);
  Instructor: Zhou, Wei
  Description: Student may contact the instructor or department for information.

Math 4428 Mathematical Modeling
  4 credit(s);
  Instructor: Saha, Rajarshi
  Description: Student may contact the instructor or department for information.

Math 4512 Differential Equations with Applications
  3 credit(s);
  Instructor: Scheel, Arnd
  Description: Student may contact the instructor or department for information.

Math 4512 Differential Equations with Applications
  3 credit(s);
  Instructor: Faye, Gregory
  Description: Student may contact the instructor or department for information.

Math 4567 Applied Fourier Analysis
  4 credit(s);
  Instructor: Hejhal, Dennis A
  Description: Student may contact the instructor or department for information.

Math 4567 Applied Fourier Analysis
  4 credit(s);
  Instructor: Bobkov, Sergey G
  Description: Student may contact the instructor or department for information.

Math 4604 Advanced Calculus II
  4 credit(s);
  Instructor: Fristedt, Bert
  Description: Student may contact the instructor or department for information.

Math 4653 Elementary Probability
  4 credit(s);
  Instructor: Zhu, Lingjiong
  Description: Student may contact the instructor or department for information.

Math 4707 Introduction to Combinatorics and Graph Theory
  4 credit(s);
  Instructor: Glick, Max
  Description: Student may contact the instructor or department for information.

Math 4991 Independent Study
  1-4 credit(s), max credits 12, 12 completions allowed;
  Instructor: Marden, Albert
  Description: Student may contact the instructor or department for information.
Math 4991 Independent Study
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Gulliver II, Robert D
Description: Student may contact the instructor or department for information.

Math 4991 Independent Study
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Prikry, Karel L
Description: Student may contact the instructor or department for information.

Math 4991 Independent Study
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Lyle, Aileen Conlon
Description: Student may contact the instructor or department for information.

Math 4992 Directed Reading
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Cockburn, Bernardo
Description: Student may contact the instructor or department for information.

Math 4993 Directed Study
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Olver, Peter J.
Description: Student may contact the instructor or department for information.

Math 4993 Directed Study
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Voronov, Alexander A
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Anderson, Greg William
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Rejto, Peter A
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Fristedt, Bert
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Rogness, Jonathan Peter
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Bobkov, Sergey G
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Nykamp, Duane Q
Description: Student may contact the instructor or department for information.
Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Mosher,Bryan
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Ashkenazi,Rina
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Bilyk,Dmytro
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Ji,Li-kyue
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Faye,Gregory
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Wang,Zizhuo
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Lan,Kai-Wen
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Brubaker,Benjamin
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Butterfield,Jane
Description: Student may contact the instructor or department for information.

Math 4995 Senior Project for CLA
A-F only, 1 credit(s);
Instructor: Kemajou-Brown PhD,Isabelle
Description: Student may contact the instructor or department for information.

Math 4997W Senior Project (Writing Intensive)
A-F only, 1 credit(s), max credits 2;Meets CLE req of Writing Intensive
Instructor: Anderson,Greg William
Description: Student may contact the instructor or department for information.

Math 4997W Senior Project (Writing Intensive)
A-F only, 1 credit(s), max credits 2;Meets CLE req of Writing Intensive
Instructor: Reiner,Victor Schorr
Description: Student may contact the instructor or department for information.
Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Miller Jr, Willard
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Sell, George R
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Safonov, Mikhail V
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Fristedt, Bert
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Conn, Jack Frederi
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Jiang, Dihua
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Siegel, Ronald Alan
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Clark, David
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Weimerskirch, Mike
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Odlyzko, Andrew
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Berkesch Zamaere, Christine
Description: Student may contact the instructor or department for information.
Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Kim, Kyoo-il
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Stinis, Panos
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Vescelius, Doreen Karol
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Ashkenazi, Rina
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Witt, Emily E
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Ji, Liangyue
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Lan, Kai-Wen
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Butterfield, Jane
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Kemajou-Brown PhD, Isabelle
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Sen, Arnab
Description: Student may contact the instructor or department for information.

Math 4997W Senior project (Writing Intensive)
A-F only, 1 credit(s), max credits 2; Meets CLE req of Writing Intensive
Instructor: Saha, Rajarshi
Description: Student may contact the instructor or department for information.

Math 5068 Actuarial Mathematics II
4 credit(s);
Instructor: Ashkenazi, Rina
Description: Student may contact the instructor or department for information.
Math 5068 Actuarial Mathematics II
4 credit(s);
Instructor: Lyle, Aileen Conlon
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);
Instructor: Liu, Zhen
Description: Student may contact the instructor or department for information.

Math 5166 Mathematical Logic II
4 credit(s);
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. More specifically, the course begins with applications of the Goedel Completeness Theorem and assumes that the student is familiar with this theorem. Since the course is a direct continuation of Math 5165 and relies heavily from material in 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);
Instructor: Musiker, Gregg Joseph
Description: Student may contact the instructor or department for information.

Math 5248 Cryptology and Number Theory
4 credit(s);
Instructor: Wu, Chenyan
Description: Student may contact the instructor or department for information.

Math 5251 Error-Correcting Codes, Finite Fields, Algebraic Curves
4 credit(s);
Instructor: Lyubeznik, Gennady
Description: Student may contact the instructor or department for information.

Math 5286H Honors: Fundamental Structures of Algebra II
4 credit(s);
Instructor: Stanton, Dennis W
Description: Student may contact the instructor or department for information.

Math 5378 Differential Geometry
4 credit(s);
Instructor: Gulliver II, Robert D
Description: This course is designed for a variety of students, having widely varying kinds of preparation and interests. It will be of substantial value for students intending to specialize in physics, solid mechanics, fluid mechanics, and most areas of pure or applied mathematics, especially geometry. Differential geometry is the study of curved objects, such as one-dimensional curves and two-dimensional surfaces in space. As a continuing and important part of the course, we will learn the methods of tensor analysis. This includes calculations in arbitrary curvilinear coordinates and computations independent of coordinates. Topics will include: arc length, curvature and torsion of curves in space; the Frenet formulas. Regular surfaces in space: description as a graph, implicit description, parametric description. Change of parameters. Tangent plane, first fundamental form, area. The Gauss map, second fundamental form, Gauss curvature, mean curvature. The intrinsic geometry of surfaces: Gauss’ Theorema Egregium, parallel transport, exponential map, Gauss-Bonnet Theorem. Bonnet’s Theorem, rigidity of the sphere.
Style: 85% Lecture, 15% Discussion.
Grading: 25% mid exam, 50% final exam, 25% problem solving.
Exam Format: essay

Math 5385 Introduction to Computational Algebraic Geometry
4 credit(s);
Instructor: Ciocan-Fontanine, Ionut
Description: Student may contact the instructor or department for information.
Math 5486 Introduction To Numerical Methods II
4 credit(s);
Instructor: Bilyk,Dmytro
Description: Student may contact the instructor or department for information.

Math 5525 Introduction to Ordinary Differential Equations
4 credit(s);
Instructor: Keel,Markus
Description: Student may contact the instructor or department for information.

Math 5588 Elementary Partial Differential Equations II
A-F only, 4 credit(s);
Instructor: Calderer,Carme
Description: Student may contact the instructor or department for information.

Math 5616H Honors: Introduction to Analysis II
4 credit(s);
Instructor: Baxter,John Robert
Description: Student may contact the instructor or department for information.

Math 5651 Basic Theory of Probability and Statistics
4 credit(s);
Instructor: Bobkov,Sergey G
Description: Student may contact the instructor or department for information.

Math 5651 Basic Theory of Probability and Statistics
4 credit(s);
Instructor: Stinis,Panos
Description: Student may contact the instructor or department for information.

Math 5651 Basic Theory of Probability and Statistics
4 credit(s);
Instructor: Sen,Arnab
Description: Student may contact the instructor or department for information.

Math 5652 Introduction to Stochastic Processes
4 credit(s);
Instructor: Safonov,Mikhail V
Description: Student may contact the instructor or department for information.

Math 5652 Introduction to Stochastic Processes
4 credit(s);
Instructor: Kemajou-Brown PhD,Isabelle
Description: Student may contact the instructor or department for information.

Math 5654 Prediction and Filtering
4 credit(s);
Instructor: Fristedt,Bert
Description: This course is one of three courses designed to follow Math 5651/Stat 5101, the "two" courses Math 5651 & Stat 5101 being the same course. The other two courses designed to follow Stat 5101/Math 5651 are Math 5652, Introduction to Stochastic Processes, and Stat 5102, Theory of Statistics II. The courses Math 5654, Math 5652 and Stat 5102 are all distinct from each other, and taking one of them does not preclude taking the other one or two for credit. Math 5654 is concerned with signal processing when the underlying stochastic processes are stationary or Markov. An issue is that of recovering and extrapolating the intended signal when the received signal also contains noise. The intended audience consists of undergraduate mathematics majors who are interested in applying mathematics in this direction and both graduate and undergraduate students in fields where signal processing plays a significant role. Students who have had a probability course elsewhere might wonder whether that course will be sufficient to stand in lieu of the prerequisite Math 5651/Stat 5101. An approximate guide on this issue is: "yes" if that probability course has a multivariable calculus prerequisite and "no" if not.
Style: 90% Lecture, 10% Discussion.
Grading: 48% mid exam, 36% final exam, 16% problem solving.
Exam Format: Problem-solving and proofs, both of which often require essay-type responses

Math 5707 Graph Theory and Non-Enumerative Combinatorics
- 4 credit(s);
- Instructor: Yang, Jed
- Description: Student may contact the instructor or department for information.

Math 5900 Tutorial in Advanced Mathematics
- A-F only, 1-6 credit(s), max credits 120, 20 completions allowed;
- Instructor: Fristedt, Bert
- Description: Student may contact the instructor or department for information.

Math 5900 Tutorial in Advanced Mathematics
- A-F only, 1-6 credit(s), max credits 120, 20 completions allowed;
- Instructor: Clark, David
- Description: Student may contact the instructor or department for information.

Math 8202 General Algebra
- A-F only, 3 credit(s);
- Instructor: Reiner, Victor Schorr
- Description: Student may contact the instructor or department for information.

Math 8202 General Algebra
- A-F only, 3 credit(s);
- Instructor: Reiner, Victor Schorr
- Description: Student may contact the instructor or department for information.

Math 8208 Theory of Modular Forms and L-Functions
- A-F only, 3 credit(s);
- Instructor: Garrett, Paul
- Description: Student may contact the instructor or department for information.

Math 8254 Algebraic Geometry
- A-F only, 3 credit(s);
- Instructor: Lan, Kai-Wen
- Description: Student may contact the instructor or department for information.

Math 8254 Algebraic Geometry
- A-F only, 3 credit(s);
- Instructor: Lan, Kai-Wen
- Description: Student may contact the instructor or department for information.

Math 8272 Lie Groups and Lie Algebras
- A-F only, 3 credit(s);
- Instructor: Jiang, Dihua
- Description: Student may contact the instructor or department for information.

Math 8300 Topics in Algebra
- A-F only, 1-3 credit(s), max credits 12, 12 completions allowed;
- Instructor: Messing, William
- Description: Student may contact the instructor or department for information.

Math 8302 Manifolds and Topology
- A-F only, 3 credit(s);
- Instructor: Li PhD, Tian-Jun
- Description: Student may contact the instructor or department for information.

Math 8302 Manifolds and Topology
Math 8386 Calculus of Variations and Minimal Surfaces
A-F only, 3 credit(s);
Instructor: Li PhD, Tian-Jun
Description: Student may contact the instructor or department for information.

Math 8402 Mathematical Modeling and Methods of Applied Mathematics
A-F only, 3 credit(s);
Instructor: Gulliver II, Robert D
Description: Student may contact the instructor or department for information.

Math 8442 Numerical Analysis and Scientific Computing
3 credit(s);
Instructor: Luskin, Mitchell B
Description: Student may contact the instructor or department for information.

Math 8450 Topics in Numerical Analysis
A-F only, 1-3 credit(s), max credits 12, 12 completions allowed;
Instructor: Cockburn, Bernardo
Description: Student may contact the instructor or department for information.

Math 8540 Topics in Mathematical Biology
A-F only, 1-3 credit(s), max credits 12, 4 completions allowed;
Instructor: Othmer, Hans G.
Description: Student may contact the instructor or department for information.

Math 8584 Theory of Partial Differential Equations
A-F only, 3 credit(s);
Instructor: Mayboroda, Svitlana
Description: Student may contact the instructor or department for information.

Math 8590 Topics in Partial Differential Equations
A-F only, 1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Sverak, Vladimir
Description: Student may contact the instructor or department for information.

Math 8602 Real Analysis
A-F only, 3 credit(s);
Instructor: Keel, Markus
Description: Student may contact the instructor or department for information.

Math 8652 Theory of Probability Including Measure Theory
3 credit(s);
Instructor: Gray, Lawrence F
Description: Student may contact the instructor or department for information.
Math 8660 Topics in Probability  
 1-3 credit(s), max credits 12, 12 completions allowed;  
Instructor: Sen, Arnab  
Description: Student may contact the instructor or department for information.

Math 8669 Combinatorial Theory  
A-F only, 3 credit(s);  
Instructor: Musiker, Gregg Joseph  
Description: Student may contact the instructor or department for information.

Math 8669 Combinatorial Theory  
A-F only, 3 credit(s);  
Instructor: Musiker, Gregg Joseph  
Description: Student may contact the instructor or department for information.

Math 8702 Complex Analysis  
A-F only, 3 credit(s);  
Instructor: Brubaker, Benjamin  
Description: Student may contact the instructor or department for information.

Math 8702 Complex Analysis  
A-F only, 3 credit(s);  
Instructor: Brubaker, Benjamin  
Description: Student may contact the instructor or department for information.

Math 8790 Topics in Complex Analysis  
A-F only, 1-3 credit(s), max credits 12, 12 completions allowed;  
Instructor: Marden, Albert  
Description: Student may contact the instructor or department for information.

Math 8802 Functional Analysis  
A-F only, 3 credit(s);  
Instructor: Polacik, Peter  
Description: Student may contact the instructor or department for information.

Math 8991 Independent Study  
1-6 credit(s), max credits 24, 4 completions allowed;  
Instructor: Calderer, Carme  
Description: Student may contact the instructor or department for information.

Math 8991 Independent Study  
1-6 credit(s), max credits 24, 4 completions allowed;  
Instructor: Lerman, Gilad  
Description: Student may contact the instructor or department for information.

Math 8991 Independent Study  
1-6 credit(s), max credits 24, 4 completions allowed;  
Instructor: Lawson, Tyler  
Description: Student may contact the instructor or department for information.

Math 8991 Independent Study  
1-6 credit(s), max credits 24, 4 completions allowed;  
Instructor: Ashkenazi, Rina  
Description: Student may contact the instructor or department for information.

Math 8992 Directed Reading  
S-N only, 1-6 credit(s), max credits 24, 6 completions allowed;  
Instructor: Lyubeznik, Gennady  
Description: Student may contact the instructor or department for information.
Math 8992 Directed Reading
  S-N only, 1-6 credit(s), max credits 24, 6 completions allowed;
  Instructor: Garrett, Paul
  Description: Student may contact the instructor or department for information.

Math 8992 Directed Reading
  S-N only, 1-6 credit(s), max credits 24, 6 completions allowed;
  Instructor: Jiang, Dihua
  Description: Student may contact the instructor or department for information.

Math 8992 Directed Reading
  S-N only, 1-6 credit(s), max credits 24, 6 completions allowed;
  Instructor: Akhmedov, Anar
  Description: Student may contact the instructor or department for information.

Math 8994 Topics at the IMA
  1-3 credit(s), max credits 6;
  Instructor: Arnold, Douglas N.
  Description: Student may contact the instructor or department for information.

Mathematics Education  145 Peik Hall

MthE 3101 Mathematics and Pedagogy for Elementary Teachers I
  A-F only, 3 credit(s);
  Instructor: Pettis, Christy R
  Description: Student may contact the instructor or department for information.

MthE 3102 Mathematics and Pedagogy for Elementary Teachers II
  A-F only, 3 credit(s);
  Instructor: Cramer, Kathleen Ann
  Description: Student may contact the instructor or department for information.

MthE 3102 Mathematics and Pedagogy for Elementary Teachers II
  A-F only, 3 credit(s);
  Instructor: Wyberg, Terrence R
  Description: Math content knowledge of K-6 in an environment modeling pedagogy for future implementation. Integrated content/methods. Problem solving, connections, communication, reasoning, representation. Geometry, measurement, probability, statistics.

MthE 5031 Geometric Structures in School Mathematics
  3 credit(s);
  Instructor: Glancy, Aran W
  Description: Student may contact the instructor or department for information.

MthE 5155 Rational Number Concepts and Proportionality
  3 credit(s);
  Instructor: Cramer, Kathleen Ann
  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;
  Instructor: STAFF
Description: Student teaching in secondary school mathematics classes.

MthE 5993 Directed Studies in Mathematics Education
S-N only, 2 credit(s);
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 8995 Problems: Mathematics Education
1-6 credit(s), max credits 12, 12 completions allowed;
Instructor: Cramer,Kathleen Ann
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);
Instructor: Kelso,Frank M
Description: Student may contact the instructor or department for information.

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes
A-F only, 4 credit(s);
Instructor: Klamecki,Barney Eugene
Description: Course Objectives: Almost all engineering and engineering management activity will involve some dealing with manufacturing engineers and manufacturing processes. Much of this activity will be asking or answering technical questions about materials, material behavior, material processing and product characteristics. The goals of this course are to provide information about manufacturing processes, a way of considering problems related to material processing and some experience with processes so that manufacturing engineering questions can be understood and answered by the use of fundamental engineering science concepts. This entails the use of many topics covered in the prerequisite courses and provides the opportunity to apply engineering science concepts. The general goal is to provide knowledge so that informed observations can be made about the effects of process parameters on process performance and product quality. This goal is pursued by analyzing various manufacturing processes using existing process models. With successful completion of this course the student should be able to: 1) Identify critical process variables which affect process performance; 2) Select appropriate material property values for use in process analysis; 3) Estimate forces and temperatures in various processes; 4) Develop simple process models; 5) Evaluate process variability and process capabilities.
Style: 80% Lecture, 20% Laboratory.
Exam Format: short problems

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes
A-F only, 4 credit(s);
Instructor: Klamecki,Barney Eugene
Description: The goal of this course is to provide information and techniques so that material failure, engineering design and manufacturing engineering questions can be understood, asked, and answered using fundamental engineering science concepts.
Grading: 40% mid exam, 30% final exam, 15% written homework, 15% laboratory evaluation.

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes
A-F only, 4 credit(s);
Instructor: Mantell,Susan C
Description: Course Objectives: Almost all engineering and engineering management activity will involve some dealing with manufacturing engineers and manufacturing processes. Much of this activity will be asking or answering technical questions about materials, material behavior, material processing and product characteristics. The goals of this course are to provide information about manufacturing processes, a way of considering problems related to material processing and some experience with processes so that manufacturing engineering questions can be understood and answered by the use of fundamental engineering science concepts. This entails the use of many topics covered in the prerequisite courses and provides the opportunity to apply engineering science concepts. The general goal is to provide knowledge so that informed
observations can be made about the effects of process parameters on process performance and product quality. This goal is pursued by analyzing various manufacturing processes using existing process models. With successful completion of this course the student should be able to: 1) Identify critical process variables which affect process performance; 2) Select appropriate material property values for use in process analysis; 3) Estimate forces and temperatures in various processes; 4) Develop simple process models; 5) Evaluate process variability and process capabilities.

Style: 80% Lecture, 20% Laboratory.

Exam Format: short problems

ME 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes
A-F only, 4 credit(s);
Instructor: Mantell,Susan C
Description: The goal of this course is to provide information and techniques so that material failure, engineering design and manufacturing engineering questions can be understood, asked, and answered using fundamental engineering science concepts.
Grading: 40% mid exam, 30% final exam, 15% written homework, 15% laboratory evaluation.

ME 3222 Design and Manufacturing II
A-F only, 4 credit(s);
Instructor: Corrigan,Tom
Description: Student may contact the instructor or department for information.

ME 3281 System Dynamics and Control
A-F only, 4 credit(s);
Instructor: Sun,Zongxuan
Description: Student may contact the instructor or department for information.

ME 3331 Thermal Sciences I
A-F only, 3 credit(s);
Instructor: Aksan,Alptekin
Description: The purpose of this course is to introduce you to the basic concepts in engineering thermodynamics. You will master thermodynamic analysis of the engineering systems that convert one form of energy to another form of energy and the systems that convert energy to work, by applying the first and the second laws of thermodynamics.
Style: 90% Lecture, 3% Film/Video, 3% Discussion, 4% Web Based.
Grading: 40% mid exam, 20% final exam, 20% quizzes, 20% written homework.

ME 3332 Thermal Sciences II
A-F only, 3 credit(s);
Instructor: Dutcher,Cari Suzanne
Description: Student may contact the instructor or department for information.

ME 3333 Thermal Sciences III
A-F only, 3 credit(s);
Instructor: Hogan,Chris
Description: Student may contact the instructor or department for information.

ME 4031W Basic Mechanical Measurements Laboratory
A-F only, 4 credit(s);Meets CLE req of Writing Intensive
Instructor: Bruggeman,Peter Julien
Description: Student may contact the instructor or department for information.

ME 4043W Industrial Assignment II
A-F only, 4 credit(s);Meets CLE req of Writing Intensive
Instructor: Kelso,Frank M
Description: Student may contact the instructor or department for information.

ME 4044 Industrial Assignment III
A-F only, 2 credit(s);
Instructor: Kelso,Frank M
Description: Student may contact the instructor or department for information.
ME 4054W Design Projects
  A-F only, 4 credit(s); Meets CLE req of Writing Intensive
  Instructor: Bohlmann, Brad
  Description: Student may contact the instructor or department for information.

ME 4081H Mechanical Engineering Honors Thesis I
  A-F only, 2 credit(s);
  Instructor: Klamecki, Barney Eugene
  Description: Student may contact the instructor or department for information.

ME 4082H Mechanical Engineering Honors Thesis II
  A-F only, 2 credit(s); Meets CLE req of Writing Intensive
  Instructor: Chase, Thomas Richard
  Description: Student may contact the instructor or department for information.

ME 4090 Advanced Engineering Problems
  1-4 credit(s), max credits 4, 1 completion allowed;
  Instructor: Durfee, William K
  Description: Student may contact the instructor or department for information.

ME 4090 Advanced Engineering Problems
  1-4 credit(s), max credits 4, 1 completion allowed;
  Instructor: Sparrow, Ephraim M
  Description: Student may contact the instructor or department for information.

ME 4231 Motion Control Laboratory
  A-F only, 4 credit(s);
  Instructor: Rajamani, Rajesh
  Description: Student may contact the instructor or department for information.

ME 4232 Fluid Power Control Lab
  A-F only, 4 credit(s);
  Instructor: Van De Ven, James Donald
  Description: Student may contact the instructor or department for information.

ME 4331 Thermal Energy Engineering Laboratory
  A-F only, 4 credit(s);
  Instructor: Hubel, Allison
  Description: Student may contact the instructor or department for information.

ME 5133 Aerosol Measurement Laboratory
  A-F only, 4 credit(s);
  Instructor: Pui, David Y
  Description: Student may contact the instructor or department for information.

ME 5221 Computer-Assisted Product Realization
  A-F only, 4 credit(s);
  Instructor: Klamecki, Barney Eugene
  Description: This class covers the complete product realization process from product concept design, to engineering design, to manufacturing process design, to evaluations of the designs, to product production, to product testing and evaluation. The course is structured around a project pursued by small groups of students. The overall goal of the project is the re-design of an existing injection molded consumer product so that significantly "better" performance is obtained (recently, a plastic shelving system). The course activities are defining a measure of product performance, evaluating the current product, setting a specified level for performance, re-designing the product using analytical and numerical analyses, designing the injection molding process for production of the product or a model-size version of the product if it is large, predicting expected product and process behavior using quantitative engineering models, producing and testing the product and comparing process and process behaviors to predictions. Professional quality computer-based tools are used in engineering analysis (ANSYS finite element program), detailed engineering design (Pro/ENGINEER design program), process design (Moldflow finite element molding simulation program) and in mold design and mold machining programming (Pro/MOLD, Pro/MANUFACTURE). Industrial quality computer-controlled milling and molding machines are use for mold
and product production. The project outcomes are a product design that has been evaluated by producing and testing the product and a process design that has been evaluated by comparing predicted and measured process behavior and part characteristics. Details of a previous offering of the course are available on the course web site listed below.

**ME 5223 Materials in Design**
- **4 credit(s);**
- **Instructor:** Yang, Rusen
- **Description:** Description: The course will stress selection of materials to fulfill specific design and functional requirements, to guard against progressive and/or catastrophic failure, and to meet design-manufacturing requirements. The course aims to provide the theoretical and science background for selection of materials used in engineered products and to provide practical guidelines for material selection in the design context. Similar considerations apply for process selection. Since polymeric materials have come into extensive engineering use in machines and consumer products, discussion of design principles applicable to polymers (and rubbers) will be an integral part of this course. The first part of the course will stress materials selection. The second part of the course will focus on polymeric materials and design with polymers. The final part of the course will focus on design against failure

  **Style:** 100% Lecture.
  **Grading:** 30% mid exam, 40% final exam, 30% written homework.

**ME 5241 Computer-Aided Engineering**
- **A-F only, 4 credit(s);**
- **Instructor:** Kelso, Frank M
- **Description:** Course Description: This is a project-based course on using computers to assist or automate engineering design and analysis tasks. It covers four areas of computer applications in engineering: computer graphics, design optimization, finite element analysis (static structural applications), and design documentation. The first two projects require students to develop software, while the last two projects make use of commercially available software. This course introduces the Matlab programming language for use with the first two projects (no prior experience required). The second two projects involve the use of ANSYS finite element software and Creo Elements CAD software.

  **Class time:** 100% lecture
  **Workload:** 4 projects; 1 or 2 lead-in homeworks per project; final exam.
  **Grade:** 60% projects; 20% homeworks; 20% final exam

**ME 5286 Robotics**
- **A-F only, 4 credit(s);**
- **Instructor:** Morellas, Vassilios
- **Description:** The course deals with four major components: the robot manipulator (or 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);**
- **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);
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);
Instructor: Kittelson, David Burnell
Description: Student may contact the instructor or department for information.

**ME 5465 Energy-Resources, Technology and Society**
A-F only, 4 credit(s);
Instructor: Kulacki, Francis A
Description: Student may contact the instructor or department for information.

**ME 8001 Research Ethics and Professional Practice**
No Grade, 0 credit(s);
Instructor: Kortshagen, Uwe Richard
Description: Student may contact the instructor or department for information.

**ME 8113 Advanced Aerosol/Particle Engineering**
A-F only, 3 credit(s);
Instructor: Hogan, Chris
Description: Student may contact the instructor or department for information.

**ME 8222 New Product Design and Business Development II**
A-F only, 4 credit(s); Credit will not be granted if credit has been received for: BMEN 8402;
Instructor: Durfee, William K
Description: See web site for course description.

**ME 8229 Finite Element Methods for Computational Mechanics: Transient/Dynamic Problems**
A-F only, 4 credit(s);
Instructor: Tamma, Kumar K
Description: Student may contact the instructor or department for information.

**ME 8243 Topics in Design: Smart Products**
A-F only, 4 credit(s), max credits 12, 3 completions allowed;
Instructor: Durfee, William K
Description: Student may contact the instructor or department for information.

**ME 8253 Computational Nanomechanics**
3 credit(s);
Instructor: Dumitrica, Traian
Description: Student may contact the instructor or department for information.

**ME 8254 Fundamentals of Microelectromechanical Systems (MEMS)**
A-F only, 4 credit(s);
Instructor: Cui, Tianhong
Description: Student may contact the instructor or department for information.

**ME 8281 Advanced Control System Design**
A-F only, 4 credit(s);
Instructor: Li, Perry Y
ME 8337 Experimental Methods in the Thermal Sciences  
A-F only, 3 credit(s);  
Instructor: Hong, Jiarong  
Description: Student may contact the instructor or department for information.

ME 8342 Convection  
A-F only, 3 credit(s);  
Instructor: Shen, Lian  
Description: Student may contact the instructor or department for information.

ME 8381 Bioheat and Mass Transfer  
3 credit(s);  
Instructor: Bischof, John C  
Description: Student may contact the instructor or department for information.

ME 8773 Graduate Seminar  
S-N only, 1 credit(s);  
Instructor: Yang, Rusen  
Description: Student may contact the instructor or department for information.

ME 8774 Graduate Seminar  
S-N only, 1 credit(s);  
Instructor: Yang, Rusen  
Description: Student may contact the instructor or department for information.

ME 8794 Mechanical Engineering Research  
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed;  
Instructor: Durfee, William K  
Description: Student may contact the instructor or department for information.

Medical Industry Leadership Institute  
4-145 Carlson School of Management

MILI 5589 Medical Technology Evaluation and Market Research  
A-F only, 2 credit(s);  
Instructor: Barrette, Eric G  
Description: Student may contact the instructor or department for information.

MILI 5990 The Healthcare Marketplace  
A-F only, 3 credit(s);  
Instructor: Ramlet, Michael J  
Description: Student may contact the instructor or department for information.

MILI 5995 Medical Industry Valuation Laboratory  
A-F only, 2 credit(s);  
Instructor: Nelson, Randall Stephen  
Description: Student may contact the instructor or department for information.

MILI 6235 Pharmaceutical Industry: Business and Policy  
A-F only, 2 credit(s);  
Instructor: Connor, Robert Alan  
Description: Pharmaceutical Industry: Business and Policy: This course is a joint venture of the Carlson School of Management and the College of Pharmacy at the University of Minnesota. In addition to academic faculty from these schools, the course also engages the participation of key leaders in the pharmaceutical industry and the health sector in general. The panel format, followed by receptions during which students can meet executives, facilitates opportunities for interaction among guest faculty and students. This course is designed to engage full-time and working professional students in the fields of management and pharmacy though interdisciplinary exposure to key business and policy aspects of the pharmaceutical industry. For general management students, it provides exposure to the technical, clinical and policy
issues of the pharmaceutical industry. For pharmacy students, it provides additional exposure to the business, financial, and entrepreneurial aspects of the pharmaceutical industry. For all, it provides an excellent opportunity for interdisciplinary learning and networking.

MILI 6589 Medical Technology Evaluation and Market Research
A-F only, 2 credit(s);
Instructor: Barrette, Eric G
Description: Student may contact the instructor or department for information.

MILI 6990 The Health Care Marketplace
A-F only, 2 credit(s);
Instructor: Finch, Michael David
Description: Student may contact the instructor or department for information.

MILI 6991 Anatomy and Physiology for Managers
A-F only, 2 credit(s);
Instructor: Georgiou, Archelle
Description: Student may contact the instructor or department for information.

MILI 6995 Medical Industry Valuation Laboratory
A-F only, 2 credit(s), max credits 6, 3 completions allowed;
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
A-F only, 2-4 credit(s), max credits 10, 3 completions allowed;
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.

Medical Laboratory Sciences Program 15-194 Phillips Wangensteen Bldg (MMC 711)

MLSP 5011W Professional Issues in the Health Care Community
A-F only, 2 credit(s); Meets CLE req of Writing Intensive
Instructor: Conway-Klaassen, Janice Marjorie
Description: Student may contact the instructor or department for information.

MLSP 5311 Fundamental Biomedical Laboratory Techniques
A-F only, 4 credit(s);
Instructor: Spannaus-Martin, Donna J
Description: Student may contact the instructor or department for information.

Medical Physics B272 Mayo Memorial Building

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

MPhys 5173 Medical and Health Physics of Radiation Therapy
3 credit(s); 5170 or instr consent Credit will not be granted if credit has been received for: TRAD 7173;
Instructor: Alaei, Parham
Description: Student may contact the instructor or department for information.
MPhy 5174 Medical and Health Physics of Imaging II
3 credit(s); 5170 or instr consent. Credit will not be granted if credit has been received for: TRAD 7174;
Instructor: Ritenour, Russell
Description: Student may contact the instructor or department for information.

MPhy 5177 Radiation Therapy Physics Lab: Radiation Physics Basics
A-F only, 3 credit(s);
Instructor: Gerbi PhD, Bruce J
Description: This course provides students hands-on experience with hardware and software used in radiation therapy
clinic for physics measurements. After this laboratory class the students are expected to have deeper understanding of the
topics covered by the previous lectures.
Style: 100% Laboratory. Thursday 4:30PM-7:30PM Contact Dr. Watanabe (course director) for a permission number.
Grading: 80% reports/papers, 20% attendance.
Exam Format: no exam

MPhy 8147 Advanced Physics of Magnetic Resonance Imaging (MRI)
3 credit(s);
Instructor: Garwood, Michael
Description: Student may contact the instructor or department for information.

MPhy 8149 Advanced Topics in Radiation Therapy Physics
A-F only, 2 credit(s);
Instructor: Higgins, Patrick Dennis
Description: Student may contact the instructor or department for information.

Medicinal Chemistry 8-101 Weaver-Densford Hall

MedC 8002 General Principles of Medicinal Chemistry
A-F only, 3 credit(s);
Instructor: Aldrich, Courtney
Description: Student may contact the instructor or department for information.

MedC 8100 Medicinal Chemistry Seminar
1 credit(s), max credits 6, 6 completions allowed;
Instructor: Haskell-Luevano, Carrie
Description: Student may contact the instructor or department for information.

MedC 8413 Chemistry of Nucleic Acids
A-F only, 3 credit(s);
Instructor: Tretyakova, Natalia Yurievna
Description: Student may contact the instructor or department for information.

MedC 8420 Natural Products Chemistry
A-F only, 3 credit(s);
Instructor: Fecik, Robert A
Description: Student may contact the instructor or department for information.

MedC 8700 Advanced Concepts in Drug Design
A-F only, 2 credit(s); 5600 or instr consent. Credit will not be granted if credit has been received for: PHAR 6247H;
Instructor: Fecik, Robert A
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;
Instructor: Ferguson, David M
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;
MeSt 1002 Medieval Tales and their Modern Echoes
3 credit(s); Credit will not be granted if credit has been received for: MEST 3002; Meets CLE req of Global Perspectives; meets CLE req of Literature
Instructor: Karras, Ruth Mazo
Description: Knights of Round Table, dragon-slayers, magic djinn, pilgrims in Hell. How stories have been retold in modern fiction, film, arts. Texts from Europe/other regions of globe. Stories from Western Europe, the Arab world, Persia, and China, as they were originally written and as they have been retold in fiction, film, video games and art. Fulfills LE requirements in Literature, Global Perspectives.

MeSt 3002 Medieval Tales and their Modern Echoes
3 credit(s); Credit will not be granted if credit has been received for: MEST 1002; Meets CLE req of Global Perspectives; meets CLE req of Literature
Instructor: Karras, Ruth Mazo
Description: Knights of Round Table, dragon-slayers, magic djinn, pilgrims in Hell. How stories have been retold in modern fiction, film, arts. Texts from Europe/other regions of globe. Stories from Western Europe, the Arab world, Persia, and China, as they were originally written and as they have been retold in fiction, film, video games and art. Fulfills LE requirements in Literature, Global Perspectives.

MeSt 3610 Topics in Medieval Studies
3 credit(s), max credits 24, 8 completions allowed;
Instructor: Noakes, Susan J
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: Reyerson, Kathryn L
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: Shank, JB
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: Flack, Christopher Harrison
Description: The medieval period is typically dated from 500-1500AD; while it ended some more than 500 years ago, the stories, genres, and literary techniques common to this time continue to endure even into our contemporary moment. One need only look at our own pop culture to see the influence of the Middle Ages. Not only are stories from this period being adapted and retold quite often (like in the rather loosely-based CGI Beowulf, Syfy's Merlin, or even the Starz series Camelot), but many movies and TV shows owe much of their narrative setting and structure to the Middle Ages (LoTR, the Hobbit, Game of Thrones, and even parodies like Monty Python and the Holy Grail all, for instance, evoke many of the tropes and details germane to this particular period). In this course, then, we'll return to the source, to those narratives that have proven foundational for so much in our collective imaginations and, hopefully, start to understand why literature from this period looms so large today. While this course engages only with British literature, it will nonetheless embody the notion of the "survey" in the fullest sense of the word. We'll range widely through not only through some more traditional Old and Middle English literature--like Beowulf and Chaucer--but also some less familiar texts. We'll read, for instance, the fantastical Welsh Mabinogi, hear of the exploits of the Hound of Ulster in the Tain, and meet a werewolf in Marie de France's Bisclavret. While many of these texts are written in languages different from our own, we'll read almost all in translation, so no particular linguistic acumen will be necessary; Middle English will prove the exception, as we'll read some of this material in the original (don't worry, I'll give you all the tools to make this as accessible as possible). Throughout the course we'll engage with questions like the nature of genre and literary form, the relationship between epic and romance, the representation of war and conquest, religious faith, women and gender, chivalry, and the supernatural. No previous experience with medieval literature is necessary or expected.
MeSt 4610 Intermediate Topics in Medieval Studies
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
3 credit(s), max credits 15, 5 completions allowed;
Instructor: Ragnow, Marguerite
Description: Student may contact the instructor or department for information.

MeSt 8110 Seminar in Medieval Studies
A-F only, 3 credit(s), max credits 48, 16 completions allowed;
Instructor: Reyerson, Kathryn L
Description: The James Ford Bell Seminar in Comparative World History, ca. 1000 to 1800, provides students with an introduction to archival and rare materials research within the context of European travel and the expansion of commercial interests into the wider world in the medieval and early modern periods. The emphasis will be on preparing you for the research paper that is the major outcome of this class, while also providing experience with many of the aspects of an academic career, including writing book reviews and encyclopedia articles, intellectual discourse, art/artifact analysis, understanding early maps, and paleography and manuscript transcription with a module on the history of the book. In addition to submitting a final research paper, students will present their research in a public forum, a setting similar to presenting at an academic conference or symposium.
Style: 20% Lecture, 60% Discussion, 20% Student Presentation. A field trip may be scheduled.
Grading: 50% reports/papers, 15% written homework, 20% in-class presentation, 15% class participation.

MeSt 8110 Seminar in Medieval Studies
A-F only, 3 credit(s), max credits 48, 16 completions allowed;
Instructor: Reyerson, Kathryn L
Description: Student may contact the instructor or department for information.

Microbial Engineering 240 Gortner Lab

MicE 5355 Advanced Fermentation and Biocatalysis Laboratory
S-N only, 1 credit(s);
Instructor: Tripp, Timothy James
Description: Student may contact the instructor or department for information.

Microbiology 1460 Mayo (Box 196)

MicB 3301 Biology of Microorganisms
A-F only, 5 credit(s); [BIOL 1002 or BIOL 1009 or BIOL 2003], [CHEM 2301 or BIOC 2331] Credit will not be granted if credit has been received for: VBS 2032;
Instructor: Mohr, Christian D
Description: Microbiology 3303 will provide an extensive overview of the microbial world highlighting the structure, function, and diversity of microorganisms including bacteria, fungi, protozoa and viruses. Topics will include microbial taxonomy, anatomy, physiology, biochemistry, molecular biology and ecology. Microbial pathogenesis, immunology and
MicB 3303 Biology of Microorganisms
A-F only, 3 credit(s); [Biol 1002 or BIOL 1009 or BIOL 2003], [CHEM 2301 or BIOL 2331] Credit will not be granted if credit has been received for: MICB 3301;
Instructor: Mohr, Christian D
Description: Microbiology 3303 will provide an extensive overview of the microbial world highlighting the structure, function, and diversity of microorganisms including bacteria, fungi, protozoa and viruses. Topics will include microbial taxonomy, anatomy, physiology, biochemistry, molecular biology and ecology. Microbial pathogenesis, immunology and infectious disease will also be presented and discussed.

MicB 4151 Molecular and Genetic Bases for Microbial Diseases
4 credit(s); BIOC 3021, BIOL 4003, [MicB 3301 or BIOL 4004] 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 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 molecular biology is important. The text book is required. Grades will be based on three examinations, team research paper and assignments, in class participation and an individual research paper. The final grade is not curved.
Style: 60% Lecture, 23% Discussion, 10% Small Group Activities, 2% Guest Speakers. Active learning, discussion
Grading: 28% final exam, 22% reports/papers, 10% written homework, 30% additional semester exams, 5% in-class presentation, 5% other evaluation. iClicker questions/quizzes together will count for 5% of the total achievable points.
Exam Format: Multiple choice, short answer, short essay Online study guides preview many of the possible essay questions.

MicB 4141W Biology, Genetics, and Pathogenesis of Viruses: Writing Intensive
4 credit(s); BIOC 3021, BIOL 4003, [MicB 3301 or BIOL 4004] 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 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. 4141W and 4171 have an integral Moodle 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: The attached syllabus is the final draft from last year— you can expect some changes as I evolve the course every year to make it better!
Style: 60% Lecture, 23% Discussion, 15% Small Group Activities, 2% Guest Speakers. Active learning, discussion
Grading: 28% final exam, 22% reports/papers, 10% written homework, 30% additional semester exams, 5% in-class presentation, 5% other evaluation. iClicker questions/quizzes together will count for 5% of the total achievable points.
Exam Format: Multiple choice, short answer, short essay Online study guides preview many of the possible essay questions.

MicB 4171 Biology, Genetics, and Pathogenesis of Viruses
A-F only, 3 credit(s); [BIOC 3021, BIOL 4003, [3301 or BIOL 4004]] 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 Moodle 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: The attached syllabus is the final draft from last year. You can expect some changes as I evolve the course every year to try to improve it!
**MicB 4235 Advanced Laboratory: Virology, Immunology, and Microbial Genetics**

- **3 credit(s);**
- **Instructor:** Bresnahan,Wade A
- **Description:** This laboratory course provides students with hands on training using state of the art molecular biology techniques to address fundamental questions in biology. Emphasis will be placed on techniques relating to virology, immunology, bacterial genetics, and molecular biology, however, all techniques covered in this course are widely used in all biology specialties (i.e., neurobiology, genetics, cell biology, etc). Specific topics covered in the course include DNA, RNA and protein analysis, gene cloning, virus propagation, flow cytometry, bioassays, and cell culture techniques.

**Style:** 10% Lecture, 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 4793W Directed Studies: Writing Intensive**

- **S-N only, 1-7 credit(s), max credits 7, 7 completions allowed; Meets CLE req of Writing Intensive**
- **Instructor:** Schiff,Leslie Ann
- **Description:** Student may contact the instructor or department for information.

**MicB 4794W Directed Research: Writing Intensive**

- **S-N only, 1-7 credit(s), max credits 15, 15 completions allowed; Meets CLE req of Writing Intensive**
- **Instructor:** Saltzman,Daniel Alan
- **Description:** Student may contact the instructor or department for information.

**MicB 4993 Directed Studies**

- **S-N only, 1-6 credit(s), max credits 36, 6 completions allowed;**
- **Instructor:** Schiff,Leslie Ann
- **Description:** Student may contact the instructor or department for information.

**MicB 4994 Directed Research**

- **S-N only, 1-7 credit(s), max credits 28, 4 completions allowed;**
- **Instructor:** Ervasti PhD,James M.
- **Description:** Student may contact the instructor or department for information.

**Microbiology, Immunology, and Cancer Biology 1460 Mayo (Box 196 UMHC)**

**MICa 8004 Cellular and Cancer Biology**

- **A-F only, 4 credit(s);**
- **Instructor:** Starr,Tim
- **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);**
- **Instructor:** Ahmed PhD,Khalil
- **Description:** Student may contact the instructor or department for information.

**MICa 8011 Current Topics in Immunology**

- **A-F only, 3 credit(s);**
- **Instructor:** Khoruts,Alexander
- **Description:** Student may contact the instructor or department for information.

**MICa 8013 Translational Cancer Research**

- **A-F only, 2 credit(s);**
- **Instructor:** Connett,John E
- **Description:** Student may contact the instructor or department for information.
MICa 8013 Translational Cancer Research  
A-F only, 2 credit(s);  
Instructor: Largaespada, David Andrew  
Description: Student may contact the instructor or department for information.

MICa 8014 Small RNA Biology  
A-F only, 2 credit(s);  
Instructor: Subramanian PhD, Subree  
Description: Student may contact the instructor or department for information.

MICa 8094 Research in Microbiology, Immunology, and Cancer Biology  
S-N only, 1 credit(s), max credits 5, 5 completions allowed;  
Instructor: Gillespie, Emily C  
Description: Student may contact the instructor or department for information.

MICa 8910 Seminar: Faculty Research Topics  
No Grade, 0 credit(s);  
Instructor: Jameson, Stephen C  
Description: Student may contact the instructor or department for information.

MICa 8920 Seminar: Student Research Topics  
No Grade, 0 credit(s);  
Instructor: Jameson, Stephen C  
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);  
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);  
Instructor: Heller, Greg  
Description: Student may contact the instructor or department for information.

Mil 304 MS III Zero Credit Lead Lab  
A-F only, 0 credit(s);  
Instructor: Dempsey, David Michael  
Description: Student may contact the instructor or department for information.

Mil 404 MS IV Zero Credit Lead Lab  
A-F only, 0 credit(s);  
Instructor: Harris, Dustin Kimoana  
Description: Student may contact the instructor or department for information.

Mil 1102 Introduction to Tactical Leadership  
A-F only, 1 credit(s);  
Instructor: Heller, Greg  
Description: Student may contact the instructor or department for information.

Mil 1104 MS I One Credit Lead Lab  
A-F only, 1 credit(s);  
Instructor: Heller, Greg  
Description: Student may contact the instructor or department for information.

Mil 1202 Foundations of Tactical Leadership  
A-F only, 2 credit(s);
Instructor: Leard, David Allen
Description: Student may contact the instructor or department for information.

Mil 1204 MS II One Credit Lead Lab
A-F only, 1 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Mil 3302 Applied Team Leadership
A-F only, 3 credit(s);
Instructor: Dempsey, David Michael
Description: Student may contact the instructor or department for information.

Mil 3304 MS III One Credit Lead Lab
A-F only, 1 credit(s);
Instructor: Dempsey, David Michael
Description: Student may contact the instructor or department for information.

Mil 3402 Leadership in a Complex World
A-F only, 3 credit(s);
Instructor: Harris, Dustin Kimoana
Description: Student may contact the instructor or department for information.

Mil 3404 MS IV One Credit Lead Lab
A-F only, 1 credit(s);
Instructor: Harris, Dustin Kimoana
Description: Student may contact the instructor or department for information.

Mil 3502 Marksmanship Training Programs
A-F only, 2 credit(s);
Instructor: Wehr, Timothy
Description: Student may contact the instructor or department for information.

Mil 3970 Military History
A-F only, 3 credit(s);
Instructor: Ruedebusch, Mitchell Adam
Description: Student may contact the instructor or department for information.

Molecular Cellular Developmental Biol and Genetics

MCDG 8900 Student Research Seminar
S-N only, 1 credit(s), max credits 10, 10 completions allowed;
Instructor: Clarke, Duncan John
Description: Student may contact the instructor or department for information.

MCDG 8950 Teaching Practicum
S-N only, 1 credit(s), max credits 2;
Instructor: Clarke, Duncan John
Description: Student may contact the instructor or department for information.

MCDG 8994 Research
S-N only, 1-5 credit(s), max credits 10, 10 completions allowed;
Instructor: Clarke, Duncan John
Description: Student may contact the instructor or department for information.

Mortuary Science

Mort 3012W Organization and Management of Funeral Business
Mort 3014 Funeral Service Rules and Regulations
A-F only, 2 credit(s);
Instructor: Mathews, Michael Clark
Description: Student may contact the instructor or department for information.

Mort 3019 Funeral Practice II
A-F only, 3 credit(s);
Instructor: LuBrant, Michael P.
Description: Student may contact the instructor or department for information.

Mort 3022W Funeral Service Arrangements
A-F only, 3 credit(s); 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);
Instructor: Meslow, Doug
Description: Student may contact the instructor or department for information.

Mort 3049 Microbiology
A-F only, 2 credit(s);
Instructor: Mathews, Michael Clark
Description: Student may contact the instructor or department for information.

Mort 3050 Pathology
A-F only, 3 credit(s);
Instructor: Mathews, Michael Clark
Description: Student may contact the instructor or department for information.

Mort 3051 Restorative Art
A-F only, 2 credit(s);
Instructor: LaCourt, Jody Lynn
Description: Student may contact the instructor or department for information.

Mort 3061 Embalming Theory
A-F only, 3 credit(s);
Instructor: LaCourt, Jody Lynn
Description: Student may contact the instructor or department for information.

Mort 3065 Embalming Chemistry
A-F only, 2 credit(s);
Instructor: Mathews, Michael Clark
Description: Student may contact the instructor or department for information.

Mort 3151 Restorative Art Laboratory
A-F only, 1 credit(s), max credits 2;
Instructor: LaCourt, Jody Lynn
Description: Student may contact the instructor or department for information.

Mort 3161 Embalming Laboratory
A-F only, 1 credit(s), max credits 2;
Instructor: LaCourt, Jody Lynn
Description: Student may contact the instructor or department for information.
Mort 3379 Clinical Funeral Service Rotation
A-F only, 1-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Woosley, Angela
Description: Student may contact the instructor or department for information.

Moving Image Studies  235 Nicholson Hall

MlmS 5002 Advanced Film Analysis
A-F only, 0-4 credit(s), 1 completion allowed;
Instructor: Johnson, Kjel Wayne
Description: Student may contact the instructor or department for information.

MlmS 8003 Historiography of the Moving Image
A-F only, 3 credit(s);
Instructor: Lovejoy, Alice Osborne
Description: Student may contact the instructor or department for information.

Multidisciplinary Studies  20 Ruttan Hall

MdS 3001W Introduction to Multidisciplinary Studies
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Redoute, Karolyn Mary
Description: This course is specifically designed for transfer or returning students who wish to complete a degree at the University of Minnesota after a two-year break in their education. The course will focus on the creation of a proposal of study for the Multidisciplinary Studies Degree, which includes a statement of purpose, a reflective essay on your education, and a rationale for courses chosen for the degree. Readings will come from an anthology and from e-reads. These are designed to help you contemplate your areas of study, while also providing you with models of personal writing. Readings are assessed by small papers and short quizzes. The major project is a 15-page proposal of study which requires constant revision. The course website may be from a prior semester and is subject to change.

MdS 3001W Introduction to Multidisciplinary Studies
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Garrett, Lisa Ann
Description: This online course is for returning adult students who are admitted to the College of Continuing Education’s Multidisciplinary Studies major. Students will develop the skills for creating a proposal of study while cultivating an understanding of the fundamental aspects of a baccalaureate degree at the University of Minnesota. The role of an undergraduate degree in a lifetime of learning will be explored through critical reflection. Students will produce an MdS Proposal for Plan of Study and formulate a plan of courses and projects through which to complete a degree. Students will investigate the nature of higher education and what it means to be university-educated; recognize U of M degree goals and assess previous life, professional, and academic experience against the University’s Student Learning Outcomes and Student Development Outcomes; understand the nature of an individualized degree and define the components of the MdS degree; explore the five areas of study in the MdS degree and how each can relate to our understanding of self, our interactions with the people and world around us, and our life experiences; understand the process of critical reflection and its relationship to adult learning and development; collaborate with peers to respond thoughtfully and critically to the work of others; and prepare a MdS Proposal for Plan of Study.
Style: Online Writing Intensive
Grading: 41% MdS Proposal for Plan of Study, 29% Reflective Journal Essays, 15.5% Online Discussions, 14.5% Lifework Inventories/Activities and Peer Reviews

MdS 3101 Project Development
A-F only, 1 credit(s), max credits 5, 5 completions allowed;
Instructor: Hanson, JoAnn Marie
Description: This online course is for returning adult students who are admitted to the College of Continuing Education’s Multidisciplinary Studies major. Development, completion, approval of MdS project proposal. Steps/skills of academic project design/development including academic research/writing. Library data base searching methods/citation styles.
Style: Online
Grading: See attached syllabus

Museum Studies  300 Bell Museum
MSt 5020 Internship
S-N only, 1-6 credit(s), max credits 32, 32 completions allowed;
Instructor: King, Lyndel Irene
Description: Student may contact the instructor or department for information.

MSt 5020 Internship
S-N only, 1-6 credit(s), max credits 32, 32 completions allowed;
Instructor: Nelson-Mayson, Lin
Description: Student may contact the instructor or department for information.

MSt 8993 Directed Study in Museum Studies
A-F only, 1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: King, Lyndel Irene
Description: Student may contact the instructor or department for information.

MSt 8993 Directed Study in Museum Studies
A-F only, 1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: Nelson-Mayson, Lin
Description: Student may contact the instructor or department for information.

Music 100 Ferguson Hall

Mus 1013 Rock I: The Historical Origins and Development of Rock Music to 1970
A-F only, 3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Lubet, Alex
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Rock music has been an enormously influential and reflexive 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.
Style: Online
Grading: See attached syllabus

Mus 1014 Rock II: Rock Music from 1970 to the Present
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Mercer-Taylor, Peter J
Description: For non-majors (no prior knowledge of music required or assumed). This course takes up the history of rock around 1970, toward the end of what many consider its Golden Age. From the emergence of "progressive" rock in the early ’70s, we will trace the course of rock and related styles to the present day, considering punk, new wave, heavy metal, hip-hop, alternative, grunge, and a range of repetitive, technology-driven styles (house, techno, etc.). Most of our attention will be focused on how rock functions as a musical style, and how the structure and language of its music interact with what it appears to be trying to say. But we will consider, as well, the uses to which rock and related styles have been put through this period, how they have contributed to ideas of youth culture, race identity, gender identity, and other social formations. The music of the course is considered within its broader cultural context, as well, and you should come prepared to watch movies, read a couple of short novels, dissect music videos, and surf the Web.
Style: 60% Lecture, 40% Discussion.
Grading: 20% mid exam, 30% final exam, 40% reports/papers, 10% class participation.
Exam Format: Short-answer questions and brief essays

Mus 1015 Music and Movies: The Use and Representation of Music and Musicians in Film in a Global Context
A-F only, 4 credit(s);
Instructor: Lubet, Alex
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. 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 underscoring 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."

**Style:** Online  
**Grading:** See attached syllabus.

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**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 Arts/Humanities  
**Instructor:** Grayson, David Alan  
**Description:** For non-majors (no prior knowledge of music required or assumed): Musical Masterpieces of the Millennium, from Gregorian Chant to Jazz. The course begins with fundamentals—the elements of music (rhythm, melody, harmony, texture, etc.) and their notation—but the emphasis will be on the psychology of perception: What do we perceive when we listen to music? The goal is to develop listening skills in order to enhance understanding and enjoyment. An exploration of musical memory. After cultivating these listening skills, we will survey representative masterpieces of the past thousand years, starting with chant and ending with works of the late twentieth century, including a smattering of musical comedy and jazz. Along the way we will examine masterpieces by Bach, Mozart, Beethoven, Chopin, Brahms, Stravinsky, and many other famous composers. Some opera videos will be shown. Listening to music in this class is sure to make it the highlight of your day!

**Style:** 85% Lecture, 15% Discussion.  
**Grading:** 17% mid exam, 17% final exam, 33% reports/papers, 33% quizzes.  
**Exam Format:** fill in the blanks

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**Mus 1051 Class Piano for Nonmusic Majors I**  
OPT No Aud, 2 credit(s);  
**Instructor:** STAFF  
**Description:** A beginning course for non-music majors with little or no keyboard background. Emphasis on basis functional skills, such as reading, harmonizing, playing by ear and improvising, along with basic technique, elementary repertoire, and music theory (written). Taught by graduate assistants in an electronic multi-piano lab. Includes lecture, group and individual performance, and some individual instruction. Outside practice is required. Practice rooms may be rented through the School of Music. Text: Contemporary Class Piano, 7th ed. by Elyse Mach. Mus 1051 covers Units 1-5, 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).

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**Mus 1052 Class Piano for Non Music Majors II**  
OPT No Aud, 2 credit(s);  
**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, 7th ed. by Elyse Mach. Mus 1052 begins with a review of Mus 1051 and covers Units 6-10, including major and minor scales; intervals up to an octave; accompaniment styles; ABA form; syncopation; secondary chords; pedaling; other scale forms; harmonizing with i, iv, and V7 in minor; jazz styles; 2-hand accompaniments; and major and minor 7th chords.

**Style:** 10% Lecture, 90% Laboratory.  
**Grading:** 20% mid exam, 25% final exam, 5% special projects, 40% quizzes, 10% class participation.  
**Exam Format:** Individual keyboard performance (plus some written theory).

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**Mus 1152 Piano: Class Lessons II**  
A-F only, 2 credit(s);  
**Instructor:** STAFF  
**Description:** Continuation of MUS 1151, a beginning course for freshman music majors or minors with limited keyboard background. Co-requisite for freshman music theory. Taught by graduate assistants in an electronic piano lab. Emphasis is on functional skills, such as reading, transposing, harmonizing, improvising, and playing by ear, along with keyboard theory, technique, and repertoire. Includes lecture, group and individual performance, and some individual instruction. Text: Keyboard Musician by Lyke. 1152 covers chapters 5-8. Students with previous piano background should contact the School of Music for information regarding placement or credit by exam.

**Style:** 10% Lecture, 90% Laboratory.
Grading: 25% mid exam, 25% final exam, 30% quizzes, 20% class participation.

Mus 1260 Voice Class
2 credit(s), max credits 4;
Instructor: Colby, Zachary Alan
Description: In this hands-on vocal laboratory setting, students will develop the basic skills of singing: breath management, tone production, resonance, tone quality, vibrato, body awareness, and diction. Participants will practice and integrate these various elements of classical vocal technique in preparation for and performance of vocal solos from standard vocal literature. Students will discover means to greater self-awareness, confidence, and expression through performance, and enhance their appreciation for the art of singing. Using musical terminology, students will objectively describe and reflect on live classical vocal recitals, operas, and concerts. This course is intended for amateur singers of any background or experience level who wish to learn about the art of singing without amplification and improve themselves vocally and musically.

Mus 1260 Voice Class
2 credit(s), max credits 4;
Instructor: Olson, Jennifer Lynn
Description: Student may contact the instructor or department for information.

Mus 1260 Voice Class
2 credit(s), max credits 4;
Instructor: Kozisek, David Andrew
Description: Student may contact the instructor or department for information.

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 1472 Guitar: Class Lessons II
A-F only, 2 credit(s);
Instructor: Stein, Cassius Clifford
Description: Student may contact the instructor or department for information.

Mus 1502 Theory and Analysis of Tonal Music II
A-F only, 2 credit(s);
Instructor: Bribitzer-Stull, Matt
Description: Student may contact the instructor or department for information.

Mus 1512 Ear-Training and Sight-Singing II
A-F only, 1 credit(s);
Instructor: Bribitzer-Stull, Matt
Description: Student may contact the instructor or department for information.

Mus 1804 World Music
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Global Perspectives
Instructor: STAFF
Description: If you love music, this is the course for you. The only prerequisite is curiosity. Whether you have musical training or not, music is an integral part of your life. You are not only surrounded by it, but you use it to define who you are and what you value in life. This is a great opportunity for non-music majors to get introduced to music from a world music perspective. Explore this exciting world and gain a crosscultural understanding of basic musical elements (rhythm, harmony, melody, texture, and timbre). You will be taken on a musical tour around the globe, focusing on a small number of representative cultures. Our goal is to understand how each representative musical case study fits into a larger cultural, social, and political context. What does it mean to be a musician? How do people conceptualize music? How does music relate to a culture’s daily life and understanding of the universe? These are some of the questions we will be addressing.
This course will broaden your horizons and sharpen your critical thinking. You will also have some hands-on musical experiences (you will not be evaluated on the basis of your musical ability). Using musical case studies from around the world, we will explore differences in aesthetics that stem from different lifestyles and values. The course objectives will be accomplished through lectures, video viewing, lots of listening, some hands-on musical experience, selected readings, and assigned concert attendance.

Mus 3021 Introduction to Music
3 credit(s);Credit will not be granted if credit has been received for: MUS 1021;Meets CLE req of Arts/Humanities
Instructor: Grayson, David Alan
Description: For non-majors (no prior knowledge of music required or assumed): Musical Masterpieces of the Millennium, from Gregorian Chant to Jazz. The course begins with fundamentals--the elements of music (rhythm, melody, harmony, texture, etc.) and their notation--but the emphasis will be on the psychology of perception: What do we perceive when we listen to music? The goal is to develop listening skills in order to enhance understanding and enjoyment. An exploration of musical memory. After cultivating these listening skills, we will survey representative masterpieces of the past thousand years, starting with chant and ending with works of the late twentieth century, including a smattering of musical comedy and jazz. Along the way we will examine masterpieces by Bach, Mozart, Beethoven, Chopin, Brahms, Stravinsky, and many other famous composers. Some opera videos will be shown. Listening to music in this class is sure to make it the highlight of your day!
Style: 85% Lecture, 15% Discussion.
Grading: 17% mid exam, 17% final exam, 33% reports/papers, 33% quizzes.
Exam Format: fill in the blanks

Mus 3029 American Music Cultures
3 credit(s);Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Currie, Scott
Description: What can we hear when we listen to the sounds of a nation confronting and celebrating its own ever-increasing diversity? What can music tell us about how communities construct, project, and even empower themselves through performance? In this class, we will explore a wealth of musical forms: including folk, country, gospel, blues, polka, klezmer, powwow, mariachi, and salsa? to understand the ways in which ethnic identities coalesce and find expression in sound. In addition to characteristic music cultures of nationally prominent European-, African-, Asian-, and Latin-American ethnic groups, we will also consider those of local communities in the Twin Cities metropolitan area.

Mus 3045 The Avant-Garde
A-F only, 3 credit(s);
Instructor: Lubet, Alex
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid information. 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.
Style: Online
Grading: See attached syllabus

Mus 3200 Campus Singers
2 credit(s), max credits 16, 8 completions allowed;
Instructor: Adrian, Russell P
Description: Student may contact the instructor or department for information.

Mus 3200 Campus Singers
2 credit(s), max credits 16, 8 completions allowed;
Instructor: Mehaffey, Matthew Wayne
Description: Student may contact the instructor or department for information.

Mus 3200 Campus Singers
2 credit(s), max credits 16, 8 completions allowed;
Instructor: Morgan, Andrew Day
Description: Student may contact the instructor or department for information.
Mus 3200 Campus Singers
2 credit(s), max credits 16, 8 completions allowed;
Instructor: Shoultz, George Phillip
Description: Student may contact the instructor or department for information.

Mus 3230 Chorus
1-2 credit(s), max credits 16, 8 completions allowed;
Instructor: Romey, Kathy Saltzman
Description: Student may contact the instructor or department for information.

Mus 3261 Italian Diction for Singers
A-F only, 1 credit(s);
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.

Mus 3264 French Diction for Singers
A-F only, 1 credit(s);
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;
Instructor: Sorenson, Dean Patrick
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;
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 3400 University and Campus Bands
2 credit(s), max credits 20, 10 completions allowed;
Instructor: Messier, Brian
Description: Student may contact the instructor or department for information.

Mus 3400 University and Campus Bands
2 credit(s), max credits 20, 10 completions allowed;
Instructor: Pettus, Andrew Howard
Description: Student may contact the instructor or department for information.

Mus 3400 University and Campus Bands
2 credit(s), max credits 20, 10 completions allowed;
Instructor: Hand, Caroline
Description: Student may contact the instructor or department for information.

Mus 3400 University and Campus Bands
2 credit(s), max credits 20, 10 completions allowed;
Instructor: Martin, Ingrid Jacqueline
Description: Student may contact the instructor or department for information.

Mus 3401 Basic Conducting
A-F only, 2 credit(s);
Instructor: Luckhardt, Jerry M
Description: Establishment and development of basic conducting skills is the goal with an emphasis on baton technique, nonverbal communication, the role of the conductor and the initial stages of score study. This course is available to all music majors who have completed Mus 3501 or an equivalent.
Style: 20% Lecture, 80% Laboratory.
Grading: 10% mid exam, 20% final exam, 20% reports/papers, 50% class participation.
Exam Format: multiple choice and essay

Mus 3410 University Wind Bands
A-F only, 1 credit(s), max credits 14, 14 completions allowed;
Instructor: Luckhardt, Jerry M
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;
Instructor: Kirchhoff, Craig J
Description: Student may contact the instructor or department for information.

Mus 3420 Orchestra
A-F only, 1 credit(s), max credits 8, 8 completions allowed;
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;
Instructor: Klemme, Benjamin
Description: MUS 3430 (Campus Orchestra) offers students of any major an opportunity to participate in an orchestral performance ensemble at the University. Through the process of musical preparation of repertoire for performance, students explore the cultural, historical, and musical backgrounds of the composers whose music is being performed. Though no competitive audition is required for enrollment, musicians new to MUS 3430 are asked to perform an informal playing demonstration for the conductors before the first rehearsal; these demonstrations give the conductors an awareness of individuals’ musical backgrounds, as well as the overall performance potential of the orchestra. Sections 001 and 002 are open to students who play flute, oboe, clarinet, bassoon, horn, trumpet, trombone, tuba, percussion, violin, viola, cello and bass. Section 003 is open to students who play violin, viola, cello and bass. Spring 2014 Maroon Campus Orchestra (Section 001) Repertoire: BERLIOZ: March to the Scaffold, from Symphonie Fantastique, MUSSORGSKY: Night on Bald Mountain, and PROKOFIEV: Lt. Kije Suite. Spring 2014 Gold Campus Orchestra (Section 002) Repertoire: DVORAK: Symphony No. 9 and STRAUSS JR., J.: Kaiser-Walzer. Spring 2014 Campus String Orchestra (Section 003) Repertoire: BACH: Brandenburg Concerto No. 3, BARTOK (ad. Willner): Rumanian Folk Dances, and MENDELSSOHN: String Symphony No. 9 in C major ("Swiss"). (Repertoire and performance dates/location are subject to change.)

Mus 3440 Chamber Ensemble
A-F only, 1 credit(s), max credits 8, 8 completions allowed;
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;
Instructor: Diem, Timothy W
Description: Student may contact the instructor or department for information.

Mus 3502 Theory and Analysis of Tonal Music IV
A-F only, 2 credit(s);
Instructor: Damschroder, David A
Description: The fourth semester of a four-semester sequence of courses devoted to tonal music theory. The focus of these courses is on analysis of music of the eighteenth and nineteenth centuries, part-writing (learning how to write music in historical styles), and skills including: sight-singing, ear-training, and keyboard performance. Music 3502 is intended primarily for undergraduate music majors. It may also be elected by graduate music majors to remedy deficiencies (though the course does NOT offer graduate credit).
Style: 25% Lecture, 50% Discussion, 25% Laboratory.
Grading: 30% mid exam, 30% final exam, 15% quizzes, 10% problem solving, 15% other evaluation. auditions
Exam Format: essay
Mus 3506 Theory and Analysis of American Popular Music
A-F only, 3 credit(s);
Instructor: Gopinath, Sumanth S
Description: What does it mean to analyze popular music? The discipline of music theory has begun to address this question in a body of scholarship and pedagogy on popular music from the 1990s to the present. This course draws on that scholarship and pedagogy to study the musical structures and techniques of broadly American popular musics, focusing on the rock era from the 1950s to the 1980s, then extending back to the emergence of popular music in US, examining early blues, country music, Tin Pan Alley song, and jazz, before then returning to more recent forms of pop/rock in the 1980s and after. This course is, however, "not" a survey course of popular music. It instead focuses on important theoretical and analytic issues, with the goal of building up a set of analytic and interpretive repertoires for better understanding the broad traditions of music that are now ubiquitous in the US.

Mus 3512 Ear-Training and Sight-Singing IV
A-F only, 1 credit(s);
Instructor: Damschroder, David A
Description: Student may contact the instructor or department for information.

Mus 3601W History of Western Music I
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Harness, Kelley A
Description: This is the first course in the undergraduate music history sequence. We will study music composed over a very broad time span, ca. 800 to 1700, looking at the works' musical structures within the larger contexts of musical style, social/political significance, and broad aesthetic and philosophical movements. Because this is a writing intensive (WI) course, both formal and informal writing assignments will constitute a significant percentage (one-third) of the grade. In addition to essay questions on exams, students will complete three short assignments which deal with writing issues (e.g., how and when to create footnotes and bibliographies) and two longer papers. The first of the longer papers will deal with issues of performance in early music, while the second will involve analysis of an individual work. Students are required to purchase the following textbooks: Grout, Donald Jay and Palisca, Claude V., A History of Music. 5th ed. New York: W.W. Norton, 1996 [this book will be used for the entire three-semester sequence] Palisca, Claude V., ed. Norton Anthology of Western Music and accompanying recordings. 3rd ed. 2 vols. New York: W. W. Norton, 1996. The course is intended primarily for undergraduate music majors; other undergraduate students may enroll with the instructor's permission.
Style: 75% Lecture, 25% Discussion.
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); Meets CLE req of Writing Intensive
Instructor: Grayson, David Alan
Description: Student may contact the instructor or department for information.

Mus 3950 Topics in Music: Entrepreneurship and Musical Careers
3 credit(s), max credits 15, 5 completions allowed;
Instructor: Sapienza, Harry Jack
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 8, 4 completions allowed;
Instructor: McCullough, Brian
Description: The Alexander Technique is a century-old technique used by musicians and others as a means of solving performance problems and achieving greater potential. For musicians, the interplay of the unconscious habits and 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 and reduction in stage fright and musculoskeletal pain. 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 (available on reserve in library). 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
Grading: 33% reports/papers, 33% attendance, 33% class participation.

Mus 5152 Organ Literature II
A-F only, 3 credit(s);
Mus 5230 Chorus
1-2 credit(s), max credits 16, 8 completions allowed;
Instructor: Romey, Kathy Saltzman
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;
Instructor: Romey, Kathy Saltzman
Description: Student may contact the instructor or department for information.

Mus 5250 Opera Workshop and Ensemble
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Walsh, David Allan
Description: Student may contact the instructor or department for information.

Mus 5272 Diction for Singers II
A-F only, 2 credit(s);
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

Mus 5276 Vocal Pedagogy II
A-F only, 3 credit(s);
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;
Instructor: Walsh, David Allan
Description: Student may contact the instructor or department for information.

Mus 5336 Jazz Arranging
A-F only, 3 credit(s);
Instructor: Sorenson, 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;
Instructor: Sorenson, Dean Patrick
Description: Student may contact the instructor or department for information.

Mus 5410 University Wind Bands
A-F only, 1 credit(s), max credits 14, 14 completions allowed;
Instructor: Luckhardt, Jerry M
Description: Student may contact the instructor or department for information.

Mus 5410 University Wind Bands
A-F only, 1 credit(s), max credits 14, 14 completions allowed;
Instructor: Kirchhoff, Craig J
Description: Student may contact the instructor or department for information.

Mus 5420 Orchestra
A-F only, 1 credit(s), max credits 8, 8 completions allowed;
Instructor: Smith, Mark Russell
Description: Student may contact the instructor or department for information.
Mus 5423 Suzuki Pedagogy Practicum  
A-F only, 1 credit(s), max credits 2;  
Instructor: Bjork, Mark P  
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;  
Instructor: Dillon, James  
Description: Student may contact the instructor or department for information.

Mus 5440 Chamber Ensemble  
A-F only, 1 credit(s), max credits 8, 8 completions allowed;  
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

Mus 5450 Orchestral Repertoire  
A-F only, 1-3 credit(s), max credits 9, 3 completions allowed;  
Instructor: Bogorad, Julia A  
Description: Student may contact the instructor or department for information.

Mus 5460 World Music Ensemble  
1-2 credit(s), max credits 16, 8 completions allowed;  
Instructor: Currie, Scott  
Description: Student may contact the instructor or department for information.

Mus 5481 Trumpet Pedagogy  
2 credit(s);  
Instructor: STAFF  
Description: This course is intended for senior undergraduates and graduate students in trumpet performance or music education. It is a survey of various aspects of trumpet teaching: history, literature, performers, related instruments, recordings, text materials, and techniques. The class includes ten short (one or two-page) papers, discussion, and performance.

Mus 5490 Percussion Ensemble  
A-F only, 1 credit(s), max credits 10, 10 completions allowed;  
Instructor: Meza, Fernando 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;  
Instructor: Clark Silva, Marilyn Kathleen  
Description: Student may contact the instructor or department for information.

Mus 5541 16th-Century Counterpoint  
A-F only, 3 credit(s);  
Instructor: Billmeyer, Dean W  
Description: This course, designed for upper-division and graduate music students, involves the study and writing of counterpoint in 16th-century or ?modal? style. Using Robert Gauldin?s text A Practical Approach to 16th-Century Counterpoint, we will write exercises and develop analytical and compositional techniques in two, three, and four voices. We will study music from Renaissance literature, and written exercises will give you the opportunity to compose in Renaissance style. Gauldin?s text is based on a ?direct? rather than ?species? approach to counterpoint study. We may supplement exercises with some species work if this benefits the class. Two primary objectives of the course are (quoting from the text) ??the acquisition of writing skills in the contrapuntal discipline, and the simulation of sixteenth-century sacred polyphonic idioms.? The class meets three times per week during the semester, with attendance in class considered mandatory. Written assignments are assigned for most class sessions; these are divided between ?short? assignments (about 20 during the semester) written overnight or during class, and ?long? assignments (about 12 during the semester)
given weekly. Grades for the "long" assignments are given substantially more weight than those for the "short" assignments, and a portion of the course grade will be based on a midterm and a final exam. Because the development of skills in the 16th century idiom requires aural skills, students will sing (and instrumentalists may perform on their instruments) in class both works of Renaissance music as well as their own work. Some repertoire will be taken from additional sources, including Soderlund, Gustave Frederic and Samuel H. Scott. Examples of Gregorian Chant & Sacred Music of the 16th Century. Waveland Press, 1971, 1996.

**Style:** 50% Lecture, 15% Discussion, 20% Small Group Activities, 15% Student Presentation.

**Grading:** 10% mid exam, 15% final exam, 75% written homework. Written homework is divided between "long" assignments (50%) and "short" assignments (25%).

**Exam Format:** *Closed-book* written exam. Students are asked to analyze, identify intentional errors, compose musical examples, and answer short written questions.

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**Mus 5550 Class Composition**
- A-F only, 2 credit(s), max credits 8, 4 completions allowed;
- Instructor: Lubet, Alex
- **Description:** Student may contact the instructor or department for information.

**Mus 5592 Music Informatics Seminar**
- A-F only, 3 credit(s);
- Instructor: Mazzola PhD, Guerino
- **Description:** Student may contact the instructor or department for information.

**Mus 5620 Topics in Opera History**
- A-F only, 3 credit(s), max credits 6;
- Instructor: Harness, Kelley A
- **Description:** Student may contact the instructor or department for information.

**Mus 5647 20th-Century European/American Music**
- 3 credit(s);
- Instructor: Painter PhD, Karen
- **Description:** Student may contact the instructor or department for information.

**Mus 5950 Topics in Music: Mahler: Life and Works**
- 3 credit(s), max credits 15, 15 completions allowed;
- Instructor: Cherlin, Michael
- **Description:** Student may contact the instructor or department for information.

**Mus 5950 Topics in Music**
- 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: Entrepreneurship and Musical Careers**
- 3 credit(s), max credits 15, 15 completions allowed;
- Instructor: Sapienza, Harry Jack
- **Description:** Student may contact the instructor or department for information.

**Mus 5950 Topics in Music: Opera Analysis of Live Performance Repertory**
- 3 credit(s), max credits 15, 15 completions allowed;
- Instructor: Bribitzer-Stull, Matt
- **Description:** Student may contact the instructor or department for information.

**Mus 5950 Topics in Music: Free Jazz - From Structure to Gesture**
- 3 credit(s), max credits 15, 15 completions allowed;
- Instructor: Mazzola PhD, Guerino
- **Description:** Student may contact the instructor or department for information.

**Mus 5950 Topics in Music: Routes of Rhythm: Afro-Caribbean to Afropop**
- 3 credit(s), max credits 15, 15 completions allowed;
- Instructor: Currie, Scott
**Description:** This course will explore the rich musical diversity of the African diaspora from the Caribbean and South America to West Africa, including such traditions as rumba, son, mambo, merengue, zouk, reggae, calypso, samba, juj, and soukous. Ethnographic studies, as well as other relevant scholarship, will help situate the emergence of these popular genres within broader colonial and post-colonial discourses of political power, economic development, social structure, and cultural expression. The roles played by racial ideologies, mass-media industries, and nationalist movements in shaping artist and audience conceptions of the music will receive particular attention, as will the common trans-Atlantic musical roots and routes that have engendered what Paul Gilroy has called a counterculture of modernity.

**Mus 5950 Topics in Music: Lovers, Crusaders, and Medieval Vernacular Song**
- 3 credit(s), max credits 15, 15 completions allowed;
- Instructor: Currie, Gabriela
- **Description:** Student may contact the instructor or department for information.

**Mus 5950 Topics in Music: Ethnography and Performance**
- 3 credit(s), max credits 15, 15 completions allowed;
- Instructor: Rahaim, Matthew
- **Description:** Student may contact the instructor or department for information.

**Mus 8181 Operatic Accompaniment Skills and Repertoire**
- A-F only, 2 credit(s);
- Instructor: Lovelace, Timothy
- **Description:** Student may contact the instructor or department for information.

**Mus 8299 Performance in Choral Conducting**
- A-F only, 3 credit(s);
- Instructor: Romey, Kathy Saltzman
- **Description:** Student may contact the instructor or department for information.

**Mus 8450 Graduate Seminar in Conducting**
- A-F only, 3-4 credit(s), max credits 32, 8 completions allowed;
- Instructor: Kirchhoff, Craig J
- **Description:** Student may contact the instructor or department for information.

**Mus 8450 Graduate Seminar in Conducting**
- A-F only, 3-4 credit(s), max credits 32, 8 completions allowed;
- Instructor: Mehaffey, Matthew Wayne
- **Description:** Student may contact the instructor or department for information.

**Mus 8450 Graduate Seminar in Conducting**
- A-F only, 3-4 credit(s), max credits 32, 8 completions allowed;
- Instructor: Smith, Mark Russell
- **Description:** Student may contact the instructor or department for information.

**Mus 8550 Composition**
- A-F only, 3 credit(s), max credits 12, 4 completions allowed;
- Instructor: Sorenson, Dean Patrick
- **Description:** Student may contact the instructor or department for information.

**Mus 8550 Composition**
- A-F only, 3 credit(s), max credits 12, 4 completions allowed;
- Instructor: Lubet, Alex
- **Description:** Student may contact the instructor or department for information.

**Mus 8550 Composition**
- A-F only, 3 credit(s), max credits 12, 4 completions allowed;
- Instructor: Dillon, James
- **Description:** Student may contact the instructor or department for information.

**Mus 8580 Topics in Tonal Analysis: Irony and Music**
- A-F only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Cherlin, Michael  
Description: Student may contact the instructor or department for information.

Mus 8580 Topics in Tonal Analysis: Harmony in Beethoven  
A-F only, 3 credit(s), max credits 12, 4 completions allowed;  
Instructor: Damschroder, David A  
Description: Student may contact the instructor or department for information.

Mus 8640 Seminar in Musicology: Medieval Musical Thought  
A-F only, 3 credit(s), max credits 12, 4 completions allowed;  
Instructor: Currie, Gabriela  
Description: Student may contact the instructor or department for information.

Mus 8640 Seminar in Musicology: Music and The World Wars  
A-F only, 3 credit(s), max credits 12, 4 completions allowed;  
Instructor: Painter PhD, Karen  
Description: Student may contact the instructor or department for information.

Music Applied 100 Ferguson Hall

MusA 1101 Piano: Elective (non-major in music)  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;  
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://music.umn.edu/students/Piano%20Ap%201101_3101.pdf  
Style: individual lessons  
Grading: 40% final exam, 60% other evaluation. weekly lesson preparation  
Exam Format: individual keyboard performance (jury)

MusA 1103 Organ: Elective (non-major in music)  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;  
Instructor: Billmeyer, Dean W  
Description: Student may contact the instructor or department for information.

MusA 1104 Voice: Elective (non-major in music)  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;  
Instructor: Colby, Zachary Alan  
Description: Student may contact the instructor or department for information.

MusA 1104 Voice: Elective (non-major in music)  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;  
Instructor: Olson, Jennifer Lynn  
Description: Student may contact the instructor or department for information.

MusA 1104 Voice: Elective (non-major in music)  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;  
Instructor: Kozisek, David Andrew  
Description: Student may contact the instructor or department for information.

MusA 1105 Violin: Elective (non-major in music)  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;  
Instructor: Kim, Young-Nam  
Description: Student may contact the instructor or department for information.

MusA 1105 Violin: Elective (non-major in music)  
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Canbolat, Volkan Can
Description: Student may contact the instructor or department for information.

MusA 1106 Viola: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: De St Croix, Laura Marie
Description: Student may contact the instructor or department for information.

MusA 1107 Cello: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Leavell, Rosalind Rochambeau
Description: Student may contact the instructor or department for information.

MusA 1108 Double Bass: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Brown, Christopher Craig
Description: Student may contact the instructor or department for information.

MusA 1109 Flute: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Jin, Eunji
Description: Student may contact the instructor or department for information.

MusA 1111 Oboe: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Olson, Emily C
Description: Student may contact the instructor or department for information.

MusA 1112 Clarinet: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Perry, Lisa Wauntyng
Description: Student may contact the instructor or department for information.

MusA 1113 Saxophone: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Hutchins, Jeffery Kyle
Description: Student may contact the instructor or department for information.

MusA 1116 Trumpet: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Alle, Benjamin A
Description: Student may contact the instructor or department for information.

MusA 1117 Trombone: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MusA 1117 Trombone: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Wyatt, Clint Edward
Description: Student may contact the instructor or department for information.

MusA 1121 Percussion: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Clark Silva, Marilyn Kathleen
Description: Student may contact the instructor or department for information.

MusA 1123 Guitar: Elective (non-major in music)
MusA 1123 Guitar: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 32, 8 completions allowed;
Instructor: Stein, Cassius Clifford
Description: Student may contact the instructor or department for information.

MusA 1201 Piano: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Artymw, Lydia
Description: Student may contact the instructor or department for information.

MusA 1204 Voice: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.

MusA 1204 Voice: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Zaro-Mullins, Wendy
Description: Student may contact the instructor or department for information.

MusA 1204 Voice: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MusA 1204 Voice: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MusA 1205 Violin: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MusA 1207 Cello: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MusA 1211 Oboe: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MusA 1212 Clarinet: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Fiterstein, Alexander
Description: Student may contact the instructor or department for information.
MusA 1214 Bassoon: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Miller Jr, John W
Description: Student may contact the instructor or department for information.

MusA 1215 French Horn: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MusA 1216 Trumpet: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MusA 1217 Trombone: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MusA 1219 Tuba: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Campbell, Steven C
Description: Student may contact the instructor or department for information.

MusA 1221 Percussion: Music Ed and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Meza, Fernando A.
Description: Student may contact the instructor or department for information.

MusA 1222 Harp: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Kienzle, Kathy
Description: Student may contact the instructor or department for information.

MusA 1223 Guitar: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Radovanlija, Maja
Description: Student may contact the instructor or department for information.

MusA 1301 Piano: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Shaw, Paul Magnus
Description: Student may contact the instructor or department for information.

MusA 1301 Piano: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Artymiw, Lydia
Description: Student may contact the instructor or department for information.

MusA 1301 Piano: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Braginsky, Alexander
Description: Student may contact the instructor or department for information.

MusA 1302 Harpsichord: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.
MusA 1303 Organ: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MusA 1304 Voice: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.

MusA 1304 Voice: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Zaro-Mullins, Wendy
Description: Student may contact the instructor or department for information.

MusA 1304 Voice: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MusA 1304 Voice: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MusA 1304 Voice: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Zabala, Adriana
Description: Student may contact the instructor or department for information.

MusA 1305 Violin: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MusA 1305 Violin: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: O'Reilly, Sally P
Description: Student may contact the instructor or department for information.

MusA 1305 Violin: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MusA 1306 Viola: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Konkol, Korey Bernard
Description: Student may contact the instructor or department for information.

MusA 1307 Cello: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MusA 1308 Double Bass: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Brown, Christopher Craig
Description: Student may contact the instructor or department for information.
MusA 1309 Flute: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MusA 1309 Flute: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MusA 1311 Oboe: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MusA 1312 Clarinet: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Fiterstein, Alexander
Description: Student may contact the instructor or department for information.

MusA 1313 Saxophone: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Wyatt, Angela J.
Description: Student may contact the instructor or department for information.

MusA 1313 Saxophone: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Rousseau, Eugene E
Description: Student may contact the instructor or department for information.

MusA 1314 Bassoon: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Miller Jr, John W
Description: Student may contact the instructor or department for information.

MusA 1314 Bassoon: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Ullery, Charles G
Description: Student may contact the instructor or department for information.

MusA 1315 French Horn: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MusA 1316 Trumpet: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MusA 1317 Trombone: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MusA 1318 Euphonium: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.
MusA 1319 Tuba: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Campbell, Steven C
Description: Student may contact the instructor or department for information.

MusA 1321 Percussion: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.

MusA 1321 Percussion: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Meza, Fernando A.
Description: Student may contact the instructor or department for information.

MusA 1321 Percussion: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Kogan, Peter
Description: Student may contact the instructor or department for information.

MusA 1322 Harp: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Kienzle, Kathy
Description: Student may contact the instructor or department for information.

MusA 1323 Guitar: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Radovanlja, Maja
Description: Student may contact the instructor or department for information.

MusA 1401 Piano: Music Major Secondary (undergraduate)
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
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://music.umn.edu/students/Piano%20Ap%201401%205401.pdf
Style: individual lessons
Grading: 40% final exam, 60% other evaluation. weekly lesson preparation
Exam Format: individual keyboard performance (jury)

MusA 1403 Organ: Music Major Secondary (undergraduate)
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Billmeyer, Dean W
Description: Student may contact the instructor or department for information.

MusA 1404 Voice: Music Major Secondary (undergraduate)
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Colby, Zachary Alan
Description: Student may contact the instructor or department for information.

MusA 1404 Voice: Music Major Secondary (undergraduate)
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Olson, Jennifer Lynn
Description: Student may contact the instructor or department for information.

MusA 1404 Voice: Music Major Secondary (undergraduate)
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Kozisek, David Andrew
MusA 1414 Bassoon: Music Major Secondary (undergraduate)
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Nielubowski, Norbert John
Description: Student may contact the instructor or department for information.

MusA 1421 Percussion: Music Major Secondary (undergraduate)
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.

MusA 1423 Guitar: Music Major Secondary (undergraduate)
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Stein, Cassius Clifford
Description: Student may contact the instructor or department for information.

MusA 1423 Guitar: Music Major Secondary (undergraduate)
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Hildebrand, Jacob Alexander
Description: Student may contact the instructor or department for information.

MusA 1904 Voice: Music Major Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.

MusA 1904 Voice: Music Major Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Zaro-Mullins, Wendy
Description: Student may contact the instructor or department for information.

MusA 1904 Voice: Music Major Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MusA 1904 Voice: Music Major Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MusA 1913 Saxophone: Music Major Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Rousseau, Eugene E
Description: Student may contact the instructor or department for information.

MusA 1915 French Horn: Music Major Transfer
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MusA 2204 Voice: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Del Santo, Jean Marie
Description: Student may contact the instructor or department for information.

MusA 2204 Voice: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Zaro-Mullins, Wendy
Description: Student may contact the instructor or department for information.

MusA 2204 Voice: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: De Haan, John
Description: Student may contact the instructor or department for information.

MusA 2206 Viola: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Konkol, Korey Bernard
Description: Student may contact the instructor or department for information.

MusA 2209 Flute: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MusA 2211 Oboe: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MusA 2213 Saxophone: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Rousseau, Eugene E
Description: Student may contact the instructor or department for information.

MusA 2215 French Horn: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MusA 2216 Trumpet: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MusA 2217 Trombone: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MusA 2221 Percussion: Music Education and BA
A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Meza, Fernando A.
Description: Student may contact the instructor or department for information.

MusA 2301 Piano: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Shaw, Paul Magnus  
**Description:** Student may contact the instructor or department for information.

**MusA 2301 Piano: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Artymin, Lydia  
**Description:** Student may contact the instructor or department for information.

**MusA 2301 Piano: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Braginsky, Alexander  
**Description:** Student may contact the instructor or department for information.

**MusA 2302 Harpsichord: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Billmeyer, Dean W  
**Description:** Student may contact the instructor or department for information.

**MusA 2303 Organ: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Billmeyer, Dean W  
**Description:** Student may contact the instructor or department for information.

**MusA 2304 Voice: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Del Santo, Jean Marie  
**Description:** Student may contact the instructor or department for information.

**MusA 2304 Voice: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Zaro-Mullins, Wendy  
**Description:** Student may contact the instructor or department for information.

**MusA 2304 Voice: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** De Haan, John  
**Description:** Student may contact the instructor or department for information.

**MusA 2304 Voice: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Zawisza, Philip David  
**Description:** Student may contact the instructor or department for information.

**MusA 2304 Voice: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Zabala, Adriana  
**Description:** Student may contact the instructor or department for information.

**MusA 2305 Violin: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** Kim, Young-Nam  
**Description:** Student may contact the instructor or department for information.

**MusA 2305 Violin: Music Major**  
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;  
**Instructor:** O'Reilly, Sally P  
**Description:** Student may contact the instructor or department for information.
MusA 2305 Violin: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MusA 2306 Viola: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Konkol, Korey Bernard
Description: Student may contact the instructor or department for information.

MusA 2307 Cello: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MusA 2308 Double Bass: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Brown, Christopher Craig
Description: Student may contact the instructor or department for information.

MusA 2309 Flute: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MusA 2309 Flute: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MusA 2311 Oboe: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MusA 2312 Clarinet: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Fiterstein, Alexander
Description: Student may contact the instructor or department for information.

MusA 2313 Saxophone: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Wyatt, Angela J.
Description: Student may contact the instructor or department for information.

MusA 2313 Saxophone: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Rousseau, Eugene E
Description: Student may contact the instructor or department for information.

MusA 2314 Bassoon: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Miller Jr, John W
Description: Student may contact the instructor or department for information.

MusA 2314 Bassoon: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Ullery, Charles G
Description: Student may contact the instructor or department for information.
MusA 2315 French Horn: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MusA 2316 Trumpet: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MusA 2317 Trombone: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MusA 2318 Euphonium: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MusA 2319 Tuba: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Campbell, Steven C
Description: Student may contact the instructor or department for information.

MusA 2321 Percussion: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.

MusA 2321 Percussion: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Meza, Fernando A.
Description: Student may contact the instructor or department for information.

MusA 2321 Percussion: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Kogan, Peter
Description: Student may contact the instructor or department for information.

MusA 2322 Harp: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Kienzle, Kathy
Description: Student may contact the instructor or department for information.

MusA 2323 Guitar: Music Major
A-F only, 2-4 credit(s), max credits 16, 8 completions allowed;
Instructor: Radovanlija, Maja
Description: Student may contact the instructor or department for information.

MusA 3101 Piano: Elective (non-major in music)
A-F only, 2-4 credit(s), max credits 16, 4 completions allowed;
Instructor: STAFF
Description: Individual piano instruction by graduate piano TAs for upper-division 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://music.umn.edu/students/Piano%20Ap%201101_3101.pdf
Style: Individual Lessons
Grading: 40% final exam, 60% other evaluation. Weekly lesson preparation
Exam Format: Jury (Individual keyboard performance)

**MusA 3103 Organ: Elective (non-major in music)**
- A-F only, 2-4 credit(s), max credits 16, 4 completions allowed;
- Instructor: Billmeyer, Dean W
- Description: Student may contact the instructor or department for information.

**MusA 3104 Voice: Elective (non-major in music)**
- A-F only, 2-4 credit(s), max credits 16, 4 completions allowed;
- Instructor: Colby, Zachary Alan
- Description: Student may contact the instructor or department for information.

**MusA 3104 Voice: Elective (non-major in music)**
- A-F only, 2-4 credit(s), max credits 16, 4 completions allowed;
- Instructor: Olson, Jennifer Lynn
- Description: Student may contact the instructor or department for information.

**MusA 3104 Voice: Elective (non-major in music)**
- A-F only, 2-4 credit(s), max credits 16, 4 completions allowed;
- Instructor: Kozisek, David Andrew
- Description: Student may contact the instructor or department for information.

**MusA 3123 Guitar: Elective (non-major in music)**
- A-F only, 2-4 credit(s), max credits 16, 4 completions allowed;
- Instructor: Stein, Cassius Clifford
- Description: Student may contact the instructor or department for information.

**MusA 3123 Guitar: Elective (non-major in music)**
- A-F only, 2-4 credit(s), max credits 16, 4 completions allowed;
- Instructor: Hildebrand, Jacob Alexander
- Description: Student may contact the instructor or department for information.

**MusA 3204 Voice: Music Education and BA**
- A-F only, 2 credit(s), max credits 16, 8 completions allowed;
- Instructor: Del Santo, Jean Marie
- Description: Student may contact the instructor or department for information.

**MusA 3204 Voice: Music Education and BA**
- A-F only, 2 credit(s), max credits 16, 8 completions allowed;
- Instructor: Zaro-Mullins, Wendy
- Description: Student may contact the instructor or department for information.

**MusA 3204 Voice: Music Education and BA**
- A-F only, 2 credit(s), max credits 16, 8 completions allowed;
- Instructor: De Haan, John
- Description: Student may contact the instructor or department for information.

**MusA 3204 Voice: Music Education and BA**
- A-F only, 2 credit(s), max credits 16, 8 completions allowed;
- Instructor: Zawisza, Philip David
- Description: Student may contact the instructor or department for information.

**MusA 3207 Cello: Music Education and BA**
- A-F only, 2 credit(s), max credits 16, 8 completions allowed;
Instructor: Remenikova, Tanya  
Description: Student may contact the instructor or department for information.

MusA 3209 Flute: Music Education and BA  
A-F only, 2 credit(s), max credits 16, 8 completions allowed;  
Instructor: Bogorad, Julia A  
Description: Student may contact the instructor or department for information.

MusA 3222 Harp: Music Education and BA  
A-F only, 2 credit(s), max credits 16, 8 completions allowed;  
Instructor: Kienzle, Kathy  
Description: Student may contact the instructor or department for information.

MusA 3223 Guitar: Music Education and BA  
A-F only, 2 credit(s), max credits 6, 3 completions allowed;  
Instructor: Radovanilija, Maja  
Description: Student may contact the instructor or department for information.

MusA 3301 Piano: Music Major  
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;  
Instructor: Shaw, Paul Magnus  
Description: Student may contact the instructor or department for information.

MusA 3301 Piano: Music Major  
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;  
Instructor: Artymiw, Lydia  
Description: Student may contact the instructor or department for information.

MusA 3301 Piano: Music Major  
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;  
Instructor: Braginsky, Alexander  
Description: Student may contact the instructor or department for information.

MusA 3302 Harpsichord: Music Major  
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;  
Instructor: Billmeyer, Dean W  
Description: Student may contact the instructor or department for information.

MusA 3303 Organ: Music Major  
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;  
Instructor: Billmeyer, Dean W  
Description: Student may contact the instructor or department for information.

MusA 3304 Voice: Music Major  
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;  
Instructor: Del Santo, Jean Marie  
Description: Student may contact the instructor or department for information.

MusA 3304 Voice: Music Major  
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;  
Instructor: Zaro-Mullins, Wendy  
Description: Student may contact the instructor or department for information.

MusA 3304 Voice: Music Major  
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;  
Instructor: De Haan, John  
Description: Student may contact the instructor or department for information.

MusA 3304 Voice: Music Major
MusA 3304 Voice: Music Major
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MusA 3305 Violin: Music Major
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;
Instructor: Zabala, Adriana
Description: Student may contact the instructor or department for information.

MusA 3305 Violin: Music Major
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;
Instructor: O’Reilly, Sally P
Description: Student may contact the instructor or department for information.

MusA 3305 Violin: Music Major
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MusA 3306 Viola: Music Major
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;
Instructor: Konkol, Korey Bernard
Description: Student may contact the instructor or department for information.

MusA 3307 Cello: Music Major
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MusA 3308 Double Bass: Music Major
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;
Instructor: Brown, Christopher Craig
Description: Student may contact the instructor or department for information.

MusA 3309 Flute: Music Major
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MusA 3309 Flute: Music Major
A-F only, 2-4 credit(s), max credits 24, 8 completions allowed;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MusA 3311 Oboe: Music Major
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.

MusA 3312 Clarinet: Music Major
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
Instructor: Fiterstein, Alexander
Description: Student may contact the instructor or department for information.
MusA 3313 Saxophone: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Wyatt, Angela J.
  Description: Student may contact the instructor or department for information.

MusA 3313 Saxophone: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Rousseau, Eugene E
  Description: Student may contact the instructor or department for information.

MusA 3314 Bassoon: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Miller Jr, John W
  Description: Student may contact the instructor or department for information.

MusA 3314 Bassoon: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Ullery, Charles G
  Description: Student may contact the instructor or department for information.

MusA 3315 French Horn: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Lemen, Caroline May
  Description: Student may contact the instructor or department for information.

MusA 3316 Trumpet: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Baldwin, David B
  Description: Student may contact the instructor or department for information.

MusA 3317 Trombone: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Ashworth, Thomas Jackson
  Description: Student may contact the instructor or department for information.

MusA 3318 Euphonium: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Tranter, John Harrington
  Description: Student may contact the instructor or department for information.

MusA 3319 Tuba: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Campbell, Steven C
  Description: Student may contact the instructor or department for information.

MusA 3321 Percussion: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Hey, Philip C
  Description: Student may contact the instructor or department for information.

MusA 3321 Percussion: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Meza, Fernando A.
  Description: Student may contact the instructor or department for information.

MusA 3321 Percussion: Music Major
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Kogan, Peter
  Description: Student may contact the instructor or department for information.
MusA 3322 Harp: Music Major
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
Instructor: Kienzle,Kathy
Description: Student may contact the instructor or department for information.

MusA 3323 Guitar: Music Major
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
Instructor: Radovanlija,Maja
Description: Student may contact the instructor or department for information.

MusA 5103 Organ: Elective (graduate non-major in music)
A-F only, 2 credit(s), max credits 8, 4 completions allowed;
Instructor: Billmeyer,Dean W
Description: Student may contact the instructor or department for information.

MusA 5104 Voice: Elective (graduate non-major in music)
A-F only, 2 credit(s), max credits 8, 4 completions allowed;
Instructor: Kozisek,David Andrew
Description: Student may contact the instructor or department for information.

MusA 5105 Violin: Elective (graduate non-major in music)
A-F only, 2 credit(s), max credits 8, 4 completions allowed;
Instructor: Canbolat,Volkan Can
Description: Student may contact the instructor or department for information.

MusA 5401 Piano: Music Major Secondary (graduate)
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
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://music.umn.edu/students/Piano%20Ap%201401%205401.pdf
Style: Individual lessons
Grading: 40% final exam, 60% other evaluation. Weekly lesson preparation
Exam Format: (Jury) Individual keyboard performance

MusA 5402 Harpsichord: Music Major Secondary (graduate)
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
Instructor: Billmeyer,Dean W
Description: Student may contact the instructor or department for information.

MusA 5403 Organ: Music Major Secondary (graduate)
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
Instructor: Billmeyer,Dean W
Description: Student may contact the instructor or department for information.

MusA 5404 Voice: Music Major Secondary (graduate)
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
Instructor: Del Santo,Jean Marie
Description: Student may contact the instructor or department for information.

MusA 5404 Voice: Music Major Secondary (graduate)
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
Instructor: Zabala,Adriana
Description: Student may contact the instructor or department for information.

MusA 5409 Flute: Music Major Secondary (graduate)
A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
Instructor: Davis,Immanuel
Description: Student may contact the instructor or department for information.
MusA 5414 Bassoon: Music Major Secondary (graduate)
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Nielubowski, Norbert John
  Description: Student may contact the instructor or department for information.

MusA 5415 French Horn: Music Major Secondary (graduate)
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Lemen, Caroline May
  Description: Student may contact the instructor or department for information.

MusA 5417 Trombone: Music Major Secondary (graduate)
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Ashworth, Thomas Jackson
  Description: Student may contact the instructor or department for information.

MusA 5418 Baritone: Music Major Secondary (graduate)
  A-F only, 2-4 credit(s), max credits 24, 12 completions allowed;
  Instructor: Ashworth, Thomas Jackson
  Description: Student may contact the instructor or department for information.

MusA 8301 Piano: Music Major (graduate)
  A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
  Instructor: Shaw, Paul Magnus
  Description: Student may contact the instructor or department for information.

MusA 8301 Piano: Music Major (graduate)
  A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
  Instructor: Artymiw, Lydia
  Description: Student may contact the instructor or department for information.

MusA 8301 Piano: Music Major (graduate)
  A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
  Instructor: Braginsky, Alexander
  Description: Student may contact the instructor or department for information.

MusA 8302 Harpsichord: Music Major (graduate)
  A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
  Instructor: Billmeyer, Dean W
  Description: Student may contact the instructor or department for information.

MusA 8303 Organ: Music Major (graduate)
  A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
  Instructor: Billmeyer, Dean W
  Description: Student may contact the instructor or department for information.

MusA 8304 Voice: Music Major (graduate)
  A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
  Instructor: Del Santo, Jean Marie
  Description: Student may contact the instructor or department for information.

MusA 8304 Voice: Music Major (graduate)
  A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
  Instructor: Zaro-Mullins, Wendy
  Description: Student may contact the instructor or department for information.

MusA 8304 Voice: Music Major (graduate)
  A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
  Instructor: De Haan, John
  Description: Student may contact the instructor or department for information.
MusA 8304 Voice: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Zawisza, Philip David
Description: Student may contact the instructor or department for information.

MusA 8304 Voice: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Zabala, Adriana
Description: Student may contact the instructor or department for information.

MusA 8305 Violin: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Kim, Young-Nam
Description: Student may contact the instructor or department for information.

MusA 8305 Violin: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: O'Reilly, Sally P
Description: Student may contact the instructor or department for information.

MusA 8305 Violin: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Bjork, Mark P
Description: Student may contact the instructor or department for information.

MusA 8306 Viola: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Thatcher, Sabina
Description: Student may contact the instructor or department for information.

MusA 8306 Viola: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Konkol, Korey Bernard
Description: Student may contact the instructor or department for information.

MusA 8307 Cello: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Remenikova, Tanya
Description: Student may contact the instructor or department for information.

MusA 8308 Double Bass: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Brown, Christopher Craig
Description: Student may contact the instructor or department for information.

MusA 8309 Flute: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Bogorad, Julia A
Description: Student may contact the instructor or department for information.

MusA 8309 Flute: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Davis, Immanuel
Description: Student may contact the instructor or department for information.

MusA 8311 Oboe: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Snow, John D
Description: Student may contact the instructor or department for information.
MusA 8312 Clarinet: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Fiterstein, Alexander
Description: Student may contact the instructor or department for information.

MusA 8313 Saxophone: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Wyatt, Angela J.
Description: Student may contact the instructor or department for information.

MusA 8313 Saxophone: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Rousseau, Eugene E
Description: Student may contact the instructor or department for information.

MusA 8314 Bassoon: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Miller Jr, John W
Description: Student may contact the instructor or department for information.

MusA 8314 Bassoon: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Ullery, Charles G
Description: Student may contact the instructor or department for information.

MusA 8315 French Horn: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Lemen, Caroline May
Description: Student may contact the instructor or department for information.

MusA 8316 Trumpet: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Baldwin, David B
Description: Student may contact the instructor or department for information.

MusA 8317 Trombone: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MusA 8317 Trombone: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Ashworth, Thomas Jackson
Description: Student may contact the instructor or department for information.

MusA 8318 Euphonium: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Tranter, John Harrington
Description: Student may contact the instructor or department for information.

MusA 8319 Tuba: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Campbell, Steven C
Description: Student may contact the instructor or department for information.

MusA 8321 Percussion: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Hey, Philip C
Description: Student may contact the instructor or department for information.
MusA 8321 Percussion: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Meza,Fernando A.
Description: Student may contact the instructor or department for information.

MusA 8321 Percussion: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Kogan,Peter
Description: Student may contact the instructor or department for information.

MusA 8322 Harp: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Kienzle,Kathy
Description: Student may contact the instructor or department for information.

MusA 8323 Guitar: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Radovanilja,Maja
Description: Student may contact the instructor or department for information.

MusA 8324 Accompanying/Coaching: Music Major (graduate)
A-F only, 2-4 credit(s), max credits 48, 24 completions allowed;
Instructor: Lovelace,Timothy
Description: Student may contact the instructor or department for information.

Music Education  100 Ferguson Hall

MuEd 1201 Introduction to Music Education
A-F only, 2 credit(s);
Instructor: Sindberg PhD,Laura K
Description: Student may contact the instructor or department for information.

MuEd 1801 Introduction to Music Therapy
A-F only, 2 credit(s);
Instructor: Schwartzberg,Edward Todd
Description: Student may contact the instructor or department for information.

MuEd 3011 Music in Childhood
3 credit(s);
Instructor: Laboy,Ryan Joseph
Description: Student may contact the instructor or department for information.

MuEd 3301 General Music I
A-F only, 3 credit(s);
Instructor: Addo PhD,Akosua O
Description: Welcome to MUED3301, a course designed to prepare you with materials, strategies and the field experience to plan and implement instruction for global arts understanding among elementary school children. Taking this course will, through experiential learning, prepare you to integrate international music and culture perspectives while planning and implementing sequential elementary music instruction. To be enrolled in this course, you must have completed the course sequence for Music Theory and Music History, and MusA 1401 Piano skills. A special focus of the course is international content and perspectives. Comparing and contrasting how the following approaches: Ghanaian traditional methods of teaching, Carl Orff (Austria), Zoltan Kodaly (Hungary), and Edwin Gordon (USA) have informed elementary music instruction in North America, this course will engage students in inter cultural immersion and constructively address cultural perspectives in US general music classrooms. The nations/cultures I will integrate will include: Ghana, Nigeria, Zimbabwe, England, Hungary, Austria, Russia, France, Jamaica and the USA. Together, we will sing, play instruments, sight read, and conduct music from cultures in today's world. We will also read and review series textbooks, materials, and handouts; plan, teach, and assess our lessons; and research and analyze intercultural repertoire for general music classes. Emphasis is placed on critical thinking and contextual references, written and oral communication, integration and synthesis of interdisciplinary and international information. As we begin our journey together it is important for you to know that, much of what will be done in our class is based on respect for the right of everyone to participate fully in cultural and artistic life. I
therefore encourage active participation and the voices of everyone in a safe and nurturing learning environment.

MuEd 3415 Choral Conducting and Methods I
A-F only, 3 credit(s);
Instructor: Hamann, Keitha Lucas
Description: Student may contact the instructor or department for information.

MuEd 3418 Style, Pedagogy, and Diction in the Choral Music Classroom II
A-F only, 2 credit(s);
Instructor: Zaro-Mullins, Wendy
Description: Student may contact the instructor or department for information.

MuEd 3502 String Techniques and Teaching
A-F only, 2 credit(s), max credits 3, 1 completion allowed;
Instructor: Rolka, Emily Jo
Description: Student may contact the instructor or department for information.

MuEd 3503 Woodwind Techniques and Teaching
A-F only, 2 credit(s);
Instructor: Hawkins, Jennifer Kay
Description: Student may contact the instructor or department for information.

MuEd 3516 Instrumental Methods and Conducting I
A-F only, 3 credit(s);
Instructor: Sindberg PhD, Laura K
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);
Instructor: Haack, Brenton William
Description:

MuEd 3807 Percussion Techniques for Music Therapists
A-F only, 2 credit(s);
Instructor: Berberick, David Mark
Description: Student may contact the instructor or department for information.

MuEd 5350 Student Teaching in Classroom Music
A-F only, 4-8 credit(s), max credits 8, 1 completion allowed;
Instructor: Addo PhD, Akosua O
Description: Student may contact the instructor or department for information.

MuEd 5450 Student Teaching in Vocal Music
A-F only, 4-8 credit(s), max credits 8, 1 completion allowed;
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;
Instructor: Sindberg PhD, Laura K
Description: Student may contact the instructor or department for information.

MuEd 5800 Group Music Leadership Skills
A-F only, 3 credit(s);
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);
MuEd 5806 Career Preparation
A-F only, 4 credit(s);
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;
Instructor: Silverman, Michael J
Description: Student may contact the instructor or department for information.

MuEd 5855 Music Therapy Internship
S-N only, 1-13 credit(s), max credits 13, 1 completion allowed;
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);
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;
Instructor: Addo PhD, Akosua O
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;
Instructor: Hamann, Keitha Lucas
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);
Instructor: Washa, Quincy M
Description: Naval Science Laboratory (NAV-1000 to be repeated both semesters freshman year; NAV-2000 to be repeated both semesters sophomore year. NAV-3000 to be repeated both semesters junior year; NAV-4000 to be repeated both semesters senior year and during fifth-year, if one is authorized.). The school will recommend one semester-hour credit. NSTC OD developed the course to cover PCC objectives not included in formal Naval Science courses. Topics cover general Navy/Marine Corps mission and policies, force protection, operational security, watch standing, physical fitness, nutrition, stress management, and other professional development subjects.

Nav 1102 Seapower and Maritime Affairs
A-F only, 3 credit(s);
Instructor: Bastemeyer, Devin James
Description: Sea Power and Maritime Affairs to be taken second semester of freshman year. Nurse-option students may take in sophomore year. A study of the U.S. Navy and the influence of sea power upon history that incorporates both a historical and political science process to explore the major events, attitudes, personalities, and circumstances that have imbued the U.S. Navy with its proud history and rich tradition; deals with issues of national imperatives in peacetime, as well as war, varying maritime philosophies that were interpreted into Naval strategies/doctrines, budgetary concerns which shaped force realities, and the pursuit of American diplomatic objectives; and concludes with a discussion of the Navy’s strategic and structural changes at the end of the Cold War and its new focus, mission and strategy in the post September 11, 2001 world.

Nav 2000 Professional Training in Naval Science
S-N only, 1 credit(s);
Instructor: Washa, Quincy M
Nav 2202 Ship Systems II: Science and Technology in Naval Weapons Systems  
**A-F only, 3 credit(s);**  
**Instructor:** Marx, Eric Robert  
**Description:** Naval Ships Systems II (Weapons to be taken junior year, second semester. Not required for nurse- and Marine Corps-option students.) The course outlines the theory and employment of weapons systems. Students explore the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance, and explosives. Fire control systems and major weapons types are discussed, including capabilities and limitations. The physical aspects of radar and underwater sound are described. Facets of command, control, communications, computers, and intelligence are explored as a means of weapons system integration. The tactical and strategic significance of command and control warfare and information warfare is discussed. This course is supplemented with review/ analysis of case studies involving the moral and ethical responsibilities of leaders in the employment of weapons.

Nav 3000 Professional Training in Naval Science  
**S-N only, 1 credit(s);**  
**Instructor:** Washa, Quincy M  
**Description:** Naval Science Laboratory (NAV-1000 to be repeated both semesters freshman year; NAV-2000 to be repeated both semesters sophomore year. NAV-3000 to be repeated both semesters junior year; NAV-4000 to be repeated both semesters senior year and during fifth-year, if one is authorized.). The school will recommend one semester-hour credit. NSTC OD developed the course to cover PCC objectives not included in formal Naval Science courses. Topics cover general Navy/Marine Corps mission and policies, force protection, operational security, watch standing, physical fitness, nutrition, stress management, and other professional development subjects.

Nav 3301 Navigation I: Piloting and Celestial Navigation  
**A-F only, 3 credit(s);**  
**Instructor:** Switzer, Eric Michael  
**Description:** Student may contact the instructor or department for information.

Nav 4000 Professional Training in Naval Science  
**S-N only, 1 credit(s), max credits 4, 4 completions allowed;**  
**Instructor:** Washa, Quincy M  
**Description:** Naval Science Laboratory (NAV-1000 to be repeated both semesters freshman year; NAV-2000 to be repeated both semesters sophomore year. NAV-3000 to be repeated both semesters junior year; NAV-4000 to be repeated both semesters senior year and during fifth-year, if one is authorized.). The school will recommend one semester-hour credit. NSTC OD developed the course to cover PCC objectives not included in formal Naval Science courses. Topics cover general Navy/Marine Corps mission and policies, force protection, operational security, watch standing, physical fitness, nutrition, stress management, and other professional development subjects.

Nav 4402W Leadership and Ethics  
**A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive**  
**Instructor:** Ratte, David Scott  
**Description:** 1. Course Description. Naval Science 4402 prepares future leaders by exploring and applying a diverse range of leadership and ethical tools to enhance objective, sound, and timely decision-making in the most challenging environments. This course emphasizes the importance of leadership that adheres to the highest standards of character and integrity. It is a ?Leadership Seminar¿ where fundamentals and applications of leadership and ethics will be discussed. It is the capstone course within the NROTC academic curriculum. The primary purpose of this course is to help you develop your personal leadership philosophy and style based on a solid ethical foundation. 2. Course Objectives. Leadership and Ethics is the capstone course of the NROTC academic curriculum, with emphasis on values and ethical foundations of leadership. This course directly supports the NROTC mission to develop Midshipmen and Officer Candidates morally, mentally and physically. Moral development aspects of the course include readings and discussion of key virtues and core values, including honor, courage, commitment, responsibility, respect, service and humility. Mental development is supported through study and discussion of ethical theories, which serve as a basis for rational decision-making in a leadership context. These include faith, truth, virtue, duty, consequences and leadership from within. The goal of this course is to equip the soon-to-be commissioned officers with the moral and mental tools required for fair and objective decision-making, and inspire them to adhere to the highest standards of character and integrity upon reaching the Fleet or Fleet Marine Force (FMF). The second section of the course addresses Professional Core Competencies expected of a Junior Officer. Lessons will include administrative responsibilities, correspondence procedures, Uniform Code of
Military Justice (UCMJ), personnel management, and policies, programs and regulations. Course assignments use actual Fleet/FMF examples and formats. Students will apply leadership and ethical principles to these assignments, as well as to case studies that reflect actual situations a Junior Officer may experience early in their military career. 3. Prerequisites. For Midshipmen and active duty students, this course must be taken after all other NAV courses; ideally the semester before graduation and commissioning. For other students, there is no prerequisite.

**Neurology  12-100 Phillips Wangensteen Bldg (Box 295 UMHC)**

**Neur 5240 Cerebrovascular Hemodynamics and Diseases II**
- A-F only, 4 credit(s);
- Instructor: Divani, Afshin Andre
- Description: Student may contact the instructor or department for information.

**Neuroscience  6-145 Jackson Hall**

**NSc 5661W Behavioral Neuroscience**
- A-F only, 3 credit(s); Meets CLE req of Writing Intensive
- Instructor: Masino, Mark A
- Description: Student may contact the instructor or department for information.

**NSc 8014 Small RNA Biology**
- A-F only, 2 credit(s);
- Instructor: Subramanian PhD, Subree
- Description: Student may contact the instructor or department for information.

**NSc 8211 Developmental Neurobiology**
- A-F only, 3 credit(s);
- Instructor: McLoon, Steven
- Description: During development of the nervous system, a diverse array of neuronal and glial cell types is generated. These neuronal types are defined by unique morphological, physiological and biochemical characteristics. Different neuronal types develop complex and precise patterns of interconnections. Normal function of the mature nervous system depends on normal development of these features. This course will examine our current knowledge of how these features develop. General cellular and molecular mechanisms along with the experimental data demonstrating the mechanisms will be emphasized rather than a detailed account of specific developmental events. This is a 'hands on' course that requires students to seek out information as well as to learn the assigned material. The course format allows flexibility in the topics students choose to study in detail.

**NSc 8216 Selected Topics in Autonomic and Neuroendocrine Regulation**
- S-N only, 1 credit(s);
- Instructor: Engeland, William C
- Description: Student may contact the instructor or department for information.

**NSc 8217 Systems and Computational Neuroscience**
- S-N only, 2 credit(s);
- Instructor: Ghose, Geoffrey M
- Description: Student may contact the instructor or department for information.

**NSc 8320 Readings in Neurobiology**
- 1-4 credit(s), max credits 4, 4 completions allowed;
- Instructor: McLoon, Steven
- Description: Student may contact the instructor or department for information.

**NSc 8320 Readings in Neurobiology**
- 1-4 credit(s), max credits 4, 4 completions allowed;
- Instructor: Fairbanks, Carolyn Ann
- Description: Student may contact the instructor or department for information.

**NSc 8320 Readings in Neurobiology**
- 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Wessendorf, Martin W
Description: Student may contact the instructor or department for information.

NSc 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Miller, Robert F
Description: Student may contact the instructor or department for information.

NSc 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Kofuji, Paulo
Description: Student may contact the instructor or department for information.

NSc 8321 Career Skills and Understanding Responsibilities as a Neuroscientist
S-N only, 0.5 credit(s), max credits 2, 4 completions allowed;
Instructor: Engeland, William C
Description: Student may contact the instructor or department for information.

Neuroscience Department
6-145 Jackson Hall

Nsci 1001 Fundamental Neuroscience: Understanding Ourselves
A-F only, 3 credit(s); Meets CLE req of Technology and Society
Instructor: Mermelstein, Paul G
Description: This course is designed for students interested in a better understanding about how our brains function. There are no prerequisites for the course other than a strong sense of curiosity. The course begins with several lectures that provide a biological foundation to appreciate the intricacies of our brains. These lectures will be easily accessible to students of all backgrounds. Afterwards, using case studies as a basis for understanding general phenomena, students will learn about a variety of topics, including, how our brains observe the world, imagine, fall in love, feel pain, respond to injury, develop, and respond to drugs or psychotherapy. Brain-machine interface technologies and cutting edge findings will also be explored. By taking this course, students will gain an even greater appreciation for the human brain, the most complex machine in existence. This course fulfills the Liberal Education requirement of Technology and Society.
Style: 80% Lecture, 20% Film/Video.
Grading: Each exam 25%
Exam Format: short answer/essay

Nsci 3001W Neuroscience and Society
A-F only, 4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
Instructor: Dubinsky, Janet M
Description:

Nsci 3100 Mind and Brain
A-F only, 3 credit(s);
Instructor: Redish, David
Description: Student may contact the instructor or department for information.

Nsci 3102W Introduction to Neuroscience II: Biological Basis of Behavior
A-F only, 3 credit(s); 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 and are available on iTunesU. Topics include: retinal processing, functional organization in the cerebral cortex, neural circuit development, language, reward, and addiction. 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 is 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, Flanders, and Thomas.
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 4151 Advanced Topics in Neuroscience
   A-F only, 3 credit(s);
   Instructor: Redish, David
   Description: Student may contact the instructor or department for information.

Nsci 4167 Neuroscience in the Community
   A-F only, 1-3 credit(s), max credits 3, 1 completion allowed;
   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 4793W Directed Studies: Writing Intensive
   S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; Meets CLE req of Writing Intensive
   Instructor: STAFF
   Description: Individual study of selected topics with emphasis on readings and use of scientific literature. This course is writing intensive. Students will have the opportunity to write a review article on a topic in their discipline of interest. They will learn to survey the current literature in a specific area of research, organize the data available relevant to the research topic, and effectively communicate this information in their paper. Also, students will draw conclusions from their investigations of the research topic and suggest directions for future research. Students are required to write a 10-15 page paper in the format of a scientific review article. An extensive survey of the literature will be required in order to present the most current information in the selected research area. This course is graded pass/fail, and the final grade is based on successful completion of the review article.
   Grading: 100% reports/papers.

Nsci 4794W Directed Research: Writing Intensive
   S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; Meets CLE req of Writing Intensive
   Instructor: STAFF
   Description: This course consists of laboratory or field investigation of selected areas of research, done under the direction of a faculty mentor. The course is writing intensive. Students will have the opportunity to present the results of their research in the format of a scientific article. They will learn to survey the current literature in their area of research, organize data, use statistical analyses if appropriate, and effectively communicate the results of their experiments through construction of tables, graphs, and other figures. Also, students will draw conclusions from their data and use persuasive arguments to convince readers of their interpretations of the data. Students will be required to write a 10-15 page paper in the format of a scientific article. This course is graded pass/fail, and the final grade is based on successful completion of the article.
   Grading: 100% reports/papers.

Nsci 4993 Directed Studies
   S-N only, 1-7 credit(s), max credits 7, 7 completions allowed;
   Instructor: STAFF
   Description: Student may contact the instructor or department for information.

Nsci 4994 Directed Research
   S-N only, 1-6 credit(s), max credits 42, 7 completions allowed;
   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);
   Instructor: Simone, Donald A
   Description: Student may contact the instructor or department for information.
Nor 1002 Beginning Norwegian
5 credit(s); 1001
Credit will not be granted if credit has been received for: NOR 4002;
Instructor: Zmijewska-Emerson, Hanna
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 VEI" and the CD. 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.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.

Nor 1002 Beginning Norwegian
5 credit(s); 1001
Credit will not be granted if credit has been received for: NOR 4002;
Instructor: Ianeva-Lockney, Arsena
Description: Student may contact the instructor or department for information.

Nor 1004 Intermediate Norwegian
5 credit(s); 1103
Credit will not be granted if credit has been received for: NOR 4004;
Instructor: Zmijewska-Emerson, Hanna
Description: 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. 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 Language Proficiency Exam (LPE) that you will take toward the end of 1004.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.

Nor 4002 Beginning Norwegian
2 credit(s); 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: Zmijewska-Emerson, Hanna
Description: 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 VEI" and the CD. 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.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.

Nor 4002 Beginning Norwegian
2 credit(s); 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: Ianeva-Lockney, Arsena
Description: Student may contact the instructor or department for information.
Nor 4004 Intermediate Norwegian
2 credit(s);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: Zmijewska-Emerson,Hanna
Description: 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. 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 Language Proficiency Exam (LPE) that you will take toward the end of 1004.
Style: 10% Lecture, 70% Discussion, 20% Laboratory.

Nursing 5-140 Weaver-Densford Hall

Nurs 2001 Human Growth and Development: A Life Span Approach
3 credit(s);
Instructor: Alaniz PhD,Karin Lue
Description: Theoretical, personal and culturally determined views of human life span development are examined from the prenatal period through the dying experience. Grand and emergent theories are applied to the biosocial, cognitive and psychosocial domains of life span development.
Style: 80% Lecture, 5% Film/Video, 10% Discussion, 5% Small Group Activities.
Grading: 20% reports/papers, 60% quizzes, 20% attendance.

Nurs 2001 Human Growth and Development: A Life Span Approach
3 credit(s);
Instructor: Hamilton,Ella Kathryn
Description: Theoretical, personal and culturally determined views of human life span development are examined from the prenatal period through the dying experience. Grand and emergent theories are applied to the biosocial, cognitive and psychosocial domains of life span development.
Style: 80% Lecture, 5% Film/Video, 10% Discussion, 5% Small Group Activities.
Grading: 20% reports/papers, 60% quizzes, 20% attendance.

Nurs 3115 Health Informatics and Information Technology
A-F only, 3 credit(s);Meets CLE req of Technology and Society
Instructor: Adwan,Jehad Zaki
Description: Student may contact the instructor or department for information.

Nurs 3690 Life Span, Growth, and Development I
2 credit(s);
Instructor: Davis PhD,Joan Audray
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course uses a life span perspective to explore transitions and changes from conception through early adulthood. It provides students with 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 students 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.
Style: This is a printed correspondence section.
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams.

Nurs 3691 Life Span, Growth, and Development II
1 credit(s);
Instructor: Davis PhD,Joan Audray
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. In this course we use a life span perspective to explore transitions and changes in middle and late adult development. The course provides students with 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 students will choose to take additional courses that deal with specific developmental periods. This 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.

Style: This is a printed correspondence section.
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exam.

Nurs 3705 Nursing Interventions
A-F only, 2 credit(s);
Instructor: Martin,Lisa
Description: Student may contact the instructor or department for information.

Nurs 3705 Nursing Interventions
A-F only, 2 credit(s);
Instructor: Zins,Savannah M
Description: Student may contact the instructor or department for information.

Nurs 3705 Nursing Interventions
A-F only, 2 credit(s);
Instructor: Dunlap,Karen J
Description: Student may contact the instructor or department for information.

Nurs 3705 Nursing Interventions
A-F only, 2 credit(s);
Instructor: Linck,Raney
Description: Student may contact the instructor or department for information.

Nurs 3801 Patient Centered Care of Adults and Older Adults I
A-F only, 3 credit(s);
Instructor: Dunlap,Karen J
Description: Student may contact the instructor or department for information.

Nurs 3802 Patient Centered Care: Nursing Care of Families I
A-F only, 3 credit(s);
Instructor: Dean EdD,Patrick Joseph
Description: Student may contact the instructor or department for information.

Nurs 3802 Patient Centered Care: Nursing Care of Families I
A-F only, 3 credit(s);
Instructor: Adwan,Jehad Zaki
Description: Student may contact the instructor or department for information.

Nurs 3802 Patient Centered Care: Nursing Care of Families I
A-F only, 3 credit(s);
Instructor: Kraft,Linda
Description: Student may contact the instructor or department for information.

Nurs 3802H Nursing Care of Families I Honors
A-F only, 4 credit(s);
Instructor: Adwan,Jehad Zaki
Description: Student may contact the instructor or department for information.

Nurs 3803 Application of Genetics in Nursing
A-F only, 2 credit(s);
Instructor: Rowan,Mary M.
Description: Student may contact the instructor or department for information.

Nurs 3803 Application of Genetics in Nursing
Nurs 4205V Honors: Nursing Theory and Research
A-F only, 2 credit(s); Meets CLE req of Writing Intensive
Instructor: Linck, Raney
Description: Student may contact the instructor or department for information.

Nurs 4205W Nursing Theory and Research
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Fjone, Andra Lynn
Description: Student may contact the instructor or department for information.

Nurs 4205W Nursing Theory and Research
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Rhudy, Lori M
Description: Student may contact the instructor or department for information.

Nurs 4301 Person Centered Care of Adults and Older Adults II
A-F only, 4 credit(s);
Instructor: Dean EdD, Patrick Joseph
Description: Student may contact the instructor or department for information.

Nurs 4301 Person Centered Care of Adults and Older Adults II
A-F only, 4 credit(s);
Instructor: Steffes, Mary Teresa
Description: Student may contact the instructor or department for information.

Nurs 4303 Practicum: Person Centered Care of Adults in Acute Care
A-F only, 3 credit(s);
Instructor: Steffes, Mary Teresa
Description: Student may contact the instructor or department for information.

Nurs 4305 Practicum: Community-based Care of Families Across Life Span
A-F only, 3 credit(s);
Instructor: Larson, Karin J
Description: Student may contact the instructor or department for information.

Nurs 4305 Practicum: Community-based Care of Families Across Life Span
A-F only, 3 credit(s);
Instructor: Pfeiffer, Jeanne
Description: Student may contact the instructor or department for information.

Nurs 4305 Practicum: Community-based Care of Families Across Life Span
A-F only, 3 credit(s);
Instructor: Darling, Virginia
Description: Student may contact the instructor or department for information.

Nurs 4305 Practicum: Community-based Care of Families Across Life Span
A-F only, 3 credit(s);
Instructor: Jackson, Melissa Rene
Description: Student may contact the instructor or department for information.

Nurs 4305 Practicum: Community-based Care of Families Across Life Span
A-F only, 3 credit(s);
Instructor: Kerr, Madeleine June
Description: Student may contact the instructor or department for information.
Nurs 4305 Practicum: Community-based Care of Families Across Life Span
A-F only, 3 credit(s);
Instructor: Kunkel, Dorcas Elisabeth
Description: Student may contact the instructor or department for information.

Nurs 4312 Patient Centered Care: Nursing Care of Families II
A-F only, 4 credit(s);
Instructor: Larson, Karin J
Description: Student may contact the instructor or department for information.

Nurs 4312 Patient Centered Care: Nursing Care of Families II
A-F only, 4 credit(s);
Instructor: Fjone, Andra Lynn
Description: Student may contact the instructor or department for information.

Nurs 4321 Public Health Nursing
A-F only, 2 credit(s);
Instructor: Flaten, Carol
Description: Student may contact the instructor or department for information.

Nurs 4321 Public Health Nursing
A-F only, 2 credit(s);
Instructor: Stellon, Kris Elaine
Description: Student may contact the instructor or department for information.

Nurs 4324 Transcultural Nursing and Global Health
3 credit(s); Meets CLE req of Global Perspectives
Instructor: Martin, Lisa
Description: Student may contact the instructor or department for information.

Nurs 4324 Transcultural Nursing and Global Health
3 credit(s); Meets CLE req of Global Perspectives
Instructor: Zins, Savannah M
Description: Student may contact the instructor or department for information.

Nurs 4705 Specialty Focused Practicum II
A-F only, 6 credit(s);
Instructor: Foley, Bradley James
Description: Student may contact the instructor or department for information.

Nurs 4705 Specialty Focused Practicum II
A-F only, 6 credit(s);
Instructor: Dean EdD, Patrick Joseph
Description: Student may contact the instructor or department for information.

Nurs 4705 Specialty Focused Practicum II
A-F only, 6 credit(s);
Instructor: Martin, Lisa
Description: Student may contact the instructor or department for information.

Nurs 4705 Specialty Focused Practicum II
A-F only, 6 credit(s);
Instructor: Beese, Rebecca J
Description: Student may contact the instructor or department for information.

Nurs 4705 Specialty Focused Practicum II
A-F only, 6 credit(s);
Instructor: Kunkel, Dorcas Elisabeth
Description: Student may contact the instructor or department for information.
Nurs 4705 Specialty Focused Practicum II
A-F only, 6 credit(s);
Instructor: Rhudy, Lori M
Description: Student may contact the instructor or department for information.

Nurs 4705 Specialty Focused Practicum II
A-F only, 6 credit(s);
Instructor: Schorr, Erica
Description: Student may contact the instructor or department for information.

Nurs 4705 Specialty Focused Practicum II
A-F only, 6 credit(s);
Instructor: Linck, Raney
Description: Student may contact the instructor or department for information.

Nurs 4705 Specialty Focused Practicum II
A-F only, 6 credit(s);
Instructor: Anderson, Christina Marie
Description: Student may contact the instructor or department for information.

Nurs 4707 Nursing Leadership: Professional Practice in Complex Systems
A-F only, 2 credit(s);
Instructor: Dean EdD, Patrick Joseph
Description: Student may contact the instructor or department for information.

Nurs 4707 Nursing Leadership: Professional Practice in Complex Systems
A-F only, 2 credit(s);
Instructor: Pechacek RN, Judith Marie
Description: Student may contact the instructor or department for information.

Nurs 4707 Nursing Leadership: Professional Practice in Complex Systems
A-F only, 2 credit(s);
Instructor: Pesut, Daniel Joseph
Description: Student may contact the instructor or department for information.

Nurs 4800 Nursing Topics: Research in Informatics and Design
1 credit(s), max credits 48, 3 completions allowed;
Instructor: Monsen PhD, Karen A
Description: Student may contact the instructor or department for information.

Nurs 4801 Research Topics
1 credit(s), max credits 16, 1 completion allowed;
Instructor: Fulkerson, Jayne
Description: Student may contact the instructor or department for information.

Nurs 4801 Research Topics
1-16 credit(s), max credits 16, 1 completion allowed;
Instructor: Sieving, Renee Evangeline
Description: Student may contact the instructor or department for information.

Nurs 5011 Interprofessional Diabetes Experience
A-F only, 2 credit(s);
Instructor: Rowan, Mary M.
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);
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);
Instructor: Veglia-Young, Carolyn Marie
Description: Student may contact the instructor or department for information.

Nurs 5115 Interprofessional Health Care Informatics
A-F only, 3 credit(s);
Instructor: Kerr, Madeleine June
Description: Student may contact the instructor or department for information.

Nurs 5225 Psychopharmacology Advanced Practice Psychiatric/Mental Health Nursing
3 credit(s);
Instructor: Kaas, Merrie Jean
Description: Student may contact the instructor or department for information.

Nurs 5229 Clinical Pharmacotherapeutics
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Benbenek, Mary Mescher
Description: Student may contact the instructor or department for information.

Nurs 5229 Clinical Pharmacotherapeutics
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: White, Kathryn W
Description: Student may contact the instructor or department for information.

Nurs 5505 Assessment and Support of Women in Labor
S-N only, 2 credit(s);
Instructor: Avery, Melissa D
Description: Student may contact the instructor or department for information.

Nurs 5800 Nursing Topics
1 credit(s), max credits 8, 4 completions allowed;
Instructor: Avery, Melissa D
Description: Student may contact the instructor or department for information.

Nurs 5812 Global Health Through Study Abroad
S-N only, 2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Larson, Karin J
Description: Student may contact the instructor or department for information.

Nurs 5830 Advanced Clinical Nursing: Clinical Quality Consultant Project
1 credit(s), max credits 6, 1 completion allowed;
Instructor: Rowan, Mary M.
Description: Student may contact the instructor or department for information.

Nurs 5830 Advanced Clinical Nursing: Peri Operative Nursing
2 credit(s), max credits 6, 1 completion allowed;
Instructor: Darst, Elaine
Description: Student may contact the instructor or department for information.

Nurs 5925 Grant Writing and Critique
1 credit(s);
Instructor: Duckett, Laura J
Description: Student may contact the instructor or department for information.

Nurs 6100 Evidence-based Practice
A-F only, 3 credit(s);
Instructor: Hadidi, Niloufar Niakosari
Description: Student may contact the instructor or department for information.
Nurs 6105 Systems Analysis and Design  
A-F only, 3 credit(s);  
Instructor: Clancy, Thomas R  
Description: Student may contact the instructor or department for information.

Nurs 6110 Epidemiology in Nursing  
2 credit(s);  
Instructor: Findorff, Mary Jocelyn  
Description: Student may contact the instructor or department for information.

Nurs 6200 Science of Nursing Intervention  
A-F only, 3 credit(s);  
Instructor: Lindquist, Ruth Ann  
Description: Student may contact the instructor or department for information.

Nurs 6306 Women’s Reproductive Healthcare Practicum  
S-N only, 1-6 credit(s), max credits 6, 4 completions allowed;  
Instructor: Ringdahl, Deborah Rene  
Description: Student may contact the instructor or department for information.

Nurs 6502 Assessment and Management of Health for Advanced Practice Nurses, II  
A-F only, 3 credit(s);  
Instructor: Anderson, Jane Kathryne  
Description: Student may contact the instructor or department for information.

Nurs 6504 Assessing, Managing Psychiatric Disorders in Adv Practice Psychiatric-Mental Health Nursing  
2 credit(s);  
Instructor: Peterson, Barbara Lois  
Description: Student may contact the instructor or department for information.

Nurs 6505 PMH/APN Prac II: Assessing, Managing Psychiatric Disorders in Adv Prac Psychiatric-Mental Health Nurs  
S-N only, 2 credit(s);  
Instructor: Peterson, Barbara Lois  
Description: Student may contact the instructor or department for information.

Nurs 6703 Nurse Executive Seminar II  
2 credit(s);  
Instructor: Pechacek RN, Judith Marie  
Description: Student may contact the instructor or department for information.

Nurs 6704 Nurse Executive Practicum I  
S-N only, 1 credit(s);  
Instructor: Pechacek RN, Judith Marie  
Description: Student may contact the instructor or department for information.

Nurs 6900 Introduction to Principles of Anesthesia  
A-F only, 6 credit(s);  
Instructor: Lovinaria, Danilo Nestor Pajarillo  
Description: Student may contact the instructor or department for information.

Nurs 6902 Nurse Anesthesia Care: Cardiothoracic Disease  
A-F only, 2 credit(s);  
Instructor: White, Kathryn W  
Description: Student may contact the instructor or department for information.

Nurs 6910 Introduction to Nurse Anesthesia Practicum I  
S-N only, 1 credit(s);  
Instructor: McMurray, Roxanne R
Description: Student may contact the instructor or department for information.

Nurs 6912 Nurse Anesthesia Care: Cardiothoracic Disease Practicum
S-N only, 3 credit(s);
Instructor: White,Kathryn W
Description: Student may contact the instructor or department for information.

Nurs 6920 Primary Care: Assessment of Health and Care of Well Children
A-F only, 3 credit(s);
Instructor: Friedrich,Cheri L
Description: Student may contact the instructor or department for information.

Nurs 6921 Assessment of Health and Care of Well Children: Primary Care Practicum
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
Instructor: Friedrich,Cheri L
Description: Student may contact the instructor or department for information.

Nurs 6925 Advanced Concepts in Women's Health Care I
A-F only, 3 credit(s);
Instructor: Ringdahl,Deborah Rene
Description: Student may contact the instructor or department for information.

Nurs 6926 Advanced Concepts in Women's Health for WHNP Practicum I
S-N only, 1 credit(s);
Instructor: Drake,Dianna M.
Description: Student may contact the instructor or department for information.

Nurs 6936 Population Focused Public Health Nursing Practice: Program Implementation and Evaluation
A-F only, 1 credit(s);
Instructor: Findorff,Mary Jocelyn
Description: Student may contact the instructor or department for information.

Nurs 6937 Population Focused Public Health Nursing Practice: Program Implementation Evaluation Practicum
S-N only, 1 credit(s);
Instructor: Findorff,Mary Jocelyn
Description: Student may contact the instructor or department for information.

Nurs 7005 Nurse Anesthesia Practicum B
S-N only, 5 credit(s);
Instructor: Lovinarla,Danilo Nestor Pajarillo
Description: Student may contact the instructor or department for information.

Nurs 7100 DNP Seminar I
A-F only, 2 credit(s);
Instructor: Ringdahl,Deborah Rene
Description: Student may contact the instructor or department for information.

Nurs 7101 DNP Seminar II
A-F only, 3 credit(s);
Instructor: Lindeke PhD,Linda L
Description: Student may contact the instructor or department for information.

Nurs 7101 DNP Seminar II
A-F only, 3 credit(s);
Instructor: Pfeiffer,Je Anne
Description: Student may contact the instructor or department for information.

Nurs 7103 Nursing Research Methods
3 credit(s);
Instructor: Cheung, Corjena K
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Halcon PhD, Linda Luciente
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Schadewald, Diane Marie
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Lindquist, Ruth Ann
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Dean EdD, Patrick Joseph
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Dierich, Mary Therese
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Westra, Bonnie L.
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Lindeke PhD, Linda L
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Findorff, Mary Jocelyn
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Krichbaum PhD, Kathleen Elaine
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Duckett, Laura J
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Chesney PhD, Mary L
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Ringdahl, Deborah Rene  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Hooke, Mary Catherine M  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: O’Conner-Von PhD, Susan K.  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Peterson, Barbara Lois  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Robertson, Cheryl Lee  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Pfeiffer, Jeanne  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Kreitzer, MaryJo  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Juve, Catherine  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Avery, Melissa D  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Bearinger, Linda Holm  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Cheung, Corjena K  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Friedrich, Cheri L  
Description: Student may contact the instructor or department for information.
Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Steffes, Mary Teresa
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Treat-Jacobson PhD, Diane Jeanette
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Talley, Kristine Marie
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Hadidi, Niloufar Niakosari
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Drake, Diana M.
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Gaugler PhD, Joseph E
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Benbenek, Mary Mescher
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Garcia PhD, Carolyn Marie
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Fagerlund, Kathleen A
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Sieving, Renee Evangeline
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Pechacek RN, Judith Marie
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Bliss PhD, Donna Zimmaro
Description: Student may contact the instructor or department for information.
Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Kubik, Martha Young
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Potter PhD, Teddie Michelle
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Kaas, Merrie Jean
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Adwan, Jehad Zaki
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Peden-McAlpine, Cynthia Jeanne
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Wyman, Jean Frances
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Mueller, Christine Ann
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Disch, Joanne M
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Poe, Christine R
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Kerr, Madeleine June
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Bronas, Ulf Gunnar
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning
S-N only, 1 credit(s);
Instructor: Monsen PhD, Karen A
Description: Student may contact the instructor or department for information.
Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: White, Kathryn W  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Looman PhD, Wendy Sue  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Kristofersson, Gisli Kort  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Rhudy, Lori M  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Yu, Fang  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Clancy, Thomas R  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Lovinaria, Danilo Nestor Pajarillo  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Pesut, Daniel Joseph  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: McMahon, Siobhan Kathleen  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: Saftner, Melissa  
Description: Student may contact the instructor or department for information.

Nurs 7110 DNP Project Direction I: Planning  
S-N only, 1 credit(s);  
Instructor: McMurray, Roxanne R  
Description: Student may contact the instructor or department for information.

Nurs 7111 DNP Project Direction II: Implementation  
S-N only, 1 credit(s);  
Instructor: Halcon PhD, Linda Luciente  
Description: Student may contact the instructor or department for information.
Nurs 7111 DNP Project Direction II: Implementation
S-N only, 1 credit(s);
Instructor: Schadewald, Diane Marie
Description: Student may contact the instructor or department for information.

Nurs 7111 DNP Project Direction II: Implementation
S-N only, 1 credit(s);
Instructor: Lindquist, Ruth Ann
Description: Student may contact the instructor or department for information.

Nurs 7111 DNP Project Direction II: Implementation
S-N only, 1 credit(s);
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Nurs 7112 DNP Project Direction III: Evaluation
S-N only, 1 credit(s);
Instructor: Halcon PhD, Linda Luciente
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Nurs 7112 DNP Project Direction III: Evaluation
S-N only, 1 credit(s);
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Nurs 7112 DNP Project Direction III: Evaluation
S-N only, 1 credit(s);
Instructor: McMurray,Roxanne R
Description: Student may contact the instructor or department for information.

Nurs 7113 Clinical Decision Support: Theory
A-F only, 2 credit(s);
Instructor: Monsen PhD,Karen A
Description: Student may contact the instructor or department for information.

Nurs 7114 Clinical Decision Support Practicum
S-N only, 2 credit(s);
Instructor: Westra,Bonnie L.
Description: Student may contact the instructor or department for information.

Nurs 7202 Moral and Ethical Positions and Actions in Nursing
A-F only, 2 credit(s);
Instructor: Duckett,Laura J
Description: Student may contact the instructor or department for information.

Nurs 7213 Midwifery Clinical and Professional Integration
S-N only, 3 credit(s);
Instructor: Ringdahl,Deborah Rene
Description: Student may contact the instructor or department for information.

Nurs 7214 Integrative Health and Healing III
A-F only, 1 credit(s);
Instructor: Kreitzer,MaryJo
Description: Student may contact the instructor or department for information.
Nurs 7215 Integrative Health and Healing Practicum III  
S-N only, 2 credit(s);  
Instructor: Kreitzler, Mary Jo  
Description: Student may contact the instructor or department for information.

Nurs 7300 Program Evaluation  
A-F only, 3 credit(s);  
Instructor: Findorff, Mary Jocelyn  
Description: Student may contact the instructor or department for information.

Nurs 7310 ANP/WHNP Clinical and Professional Integration  
2 credit(s);  
Instructor: Larson, Karin J  
Description: Student may contact the instructor or department for information.

Nurs 7400 Health Policy Leadership  
A-F only, 3 credit(s);  
Instructor: Chesney PhD, Mary L  
Description: Student may contact the instructor or department for information.

Nurs 7406 Advanced Nursing Practicum in Adult-Gerontology Health  
S-N only, 3 credit(s);  
Instructor: Dierich, Mary Therese  
Description: Student may contact the instructor or department for information.

Nurs 7406 Advanced Nursing Practicum in Adult-Gerontology Health  
S-N only, 3 credit(s);  
Instructor: Peden-McAlpine, Cynthia Jeanne  
Description: Student may contact the instructor or department for information.

Nurs 7503 Reproductive Health Care of Women Practicum for Family Nurse Practitioners  
S-N only, 1 credit(s);  
Instructor: Saftner, Melissa  
Description: Student may contact the instructor or department for information.

Nurs 7505 Assessment and Management of Health for Advanced Practice Nurses Practicum II  
S-N only, 1-2 credit(s), max credits 2, 1 completion allowed;  
Instructor: Dierich, Mary Therese  
Description: Student may contact the instructor or department for information.

Nurs 7505 Assessment and Management of Health for Advanced Practice Nurses Practicum II  
S-N only, 1-2 credit(s), max credits 2, 1 completion allowed;  
Instructor: Benbenek, Mary Mescher  
Description: Student may contact the instructor or department for information.

Nurs 7505 Assessment and Management of Health for Advanced Practice Nurses Practicum II  
S-N only, 1-2 credit(s), max credits 2, 1 completion allowed;  
Instructor: Peden-McAlpine, Cynthia Jeanne  
Description: Student may contact the instructor or department for information.

Nurs 7507 Assessment Management of Health Practicum IV: Community Health Leadership for Family Nurse Pract  
S-N only, 1 credit(s);  
Instructor: Benbenek, Mary Mescher  
Description: Student may contact the instructor or department for information.

Nurs 7508 Assessment Management of Health Practicum V: Clinical Specialty Care for Family Nurse Practitioner  
S-N only, 1 credit(s);  
Instructor: Benbenek, Mary Mescher
**Nurs 7509 Assessment and Management of Health Practicum VI: Primary Care for the Family Nurse Practitioner**
S-N only, 1 credit(s);
Instructor: Benbenek, Mary Mescher
Description: Student may contact the instructor or department for information.

**Nurs 7600 Nursing Research and Evidence Based Practice**
A-F only, 4 credit(s);
Instructor: Hooke, Mary Catherine M
Description: Student may contact the instructor or department for information.

**Nurs 7604 Executive Leadership Seminar IV: Boundary Spanning Leadership**
A-F only, 2 credit(s);
Instructor: Potter PhD, Teddie Michelle
Description: Student may contact the instructor or department for information.

**Nurs 7605 Executive Leadership Practicum III: Boundary Spanning Leadership**
S-N only, 3 credit(s);
Instructor: Krichbaum PhD, Kathleen Elaine
Description: Student may contact the instructor or department for information.

**Nurs 7606 Relationship-Based Leadership and Management**
A-F only, 3 credit(s);
Instructor: Potter PhD, Teddie Michelle
Description: Explore the concepts, theories and practices that support relationship-based leadership and management and introduce a framework and set of tools to provide leadership in an empowered organization.

**Nurs 7608 Health Care Finance and Resource Management**
A-F only, 3 credit(s);
Instructor: Pechacek RN, Judith Marie
Description: Student may contact the instructor or department for information.

**Nurs 7610 Health Innovations and Leadership**
A-F only, 3 credit(s);
Instructor: Pfeiffer, Jeanne
Description: Student may contact the instructor or department for information.

**Nurs 7612 Psychiatric/Mental Health Advanced Practice Nursing: Professional Seminar**
1 credit(s);
Instructor: Kaas, Merrie Jean
Description: Student may contact the instructor or department for information.

**Nurs 7613 Psychiatric/Mental Health Advanced Practice Nursing: Practicum V**
S-N only, 2 credit(s);
Instructor: Kaas, Merrie Jean
Description: Student may contact the instructor or department for information.

**Nurs 7900 Scholarly Teaching and Learning in Nursing**
3 credit(s);
Instructor: Krichbaum PhD, Kathleen Elaine
Description: Student may contact the instructor or department for information.

**Nurs 7925 Systems of Care for Children and Youth With Special Health Care Needs Practicum**
A-F only, 2 credit(s);
Instructor: Friedrich, Cheri L
Description: Student may contact the instructor or department for information.

**Nurs 7926 Advanced Assessment, Intervention in Families of Children and Youth With Special Health Care**
Needs
  A-F only, 2 credit(s);
  Instructor: Looman PhD, Wendy Sue
  Description: Student may contact the instructor or department for information.

Nurs 7927 Adv Assessment, Intervention in Families of Children and Youth With Special Health Care Needs Prac
  A-F only, 1 credit(s);
  Instructor: Looman PhD, Wendy Sue
  Description: Student may contact the instructor or department for information.

Nurs 7930 Public Health Nursing Leadership Practicum
  S-N only, 3 credit(s);
  Instructor: Garcia PhD, Carolyn Marie
  Description: Student may contact the instructor or department for information.

Nurs 7940 Individual, Interpersonal, Community, and Organizational Change
  3 credit(s);
  Instructor: Kumpula EdD, Renee
  Description: Student may contact the instructor or department for information.

Nurs 8134 Interventions and Outcomes Research
  A-F only, 3 credit(s);
  Instructor: Henly, Susan J
  Description: Student may contact the instructor or department for information.

Nurs 8152 Scholarship in Health Care Ethics
  A-F only, 3 credit(s);
  Instructor: Liaschenko, Joan
  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;
  Instructor: Peden-McAlpine, Cynthia Jeanne
  Description: Student may contact the instructor or department for information.

Nurs 8177 Advanced Nursing Research Practicum
  S-N only, 2 credit(s);
  Instructor: Westra, Bonnie L.
  Description: Student may contact the instructor or department for information.

Nurs 8190 Critical Review in Health Research
  A-F only, 2 credit(s);
  Instructor: Hadidi, Niloufar Niakosari
  Description: Student may contact the instructor or department for information.

Nurs 8195 Mixed Methods in the Social, Behavioral, and Applied Health Sciences
  A-F only, 3 credit(s);
  Instructor: Gaugler PhD, Joseph E
  Description: Student may contact the instructor or department for information.
Nurs 8360 Advanced Clinical Nursing
1-6 credit(s), max credits 6, 1 completion allowed;
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;
Instructor: Lindeke PhD, Linda L
Description: Student may contact the instructor or department for information.

Nurs 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Findorff, Mary Jocelyn
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;
Instructor: Chesney PhD, Mary L
Description: Student may contact the instructor or department for information.

Nurs 8361 Special Topics in Nursing
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Potter PhD, Teddie Michelle
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;
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;
Instructor: Peden-McAlpine, Cynthia Jeanne
Description: Student may contact the instructor or department for information.

Nutr 5622 Vitamin and Mineral Biochemistry
3 credit(s);
Instructor: Gallaher, Daniel David
Description: This course focuses on the physiological functions and biochemical actions of vitamins and essential minerals. Topics discussed for each include absorption, transport, storage, metabolic function, reaction mechanism, excretion, and toxicity. Examples of deficiency signs are given extensively. Also considered are interactions among vitamins and essential minerals, approaches to biochemical assessment of status, and dietary requirements. The format is primarily lecture, with in-class discussion. The class is intended for graduate students with an interest in nutrition and undergraduate nutrition science students.
Style: 95% Lecture, 5% Student Presentation.
Grading: 64% mid exam, 16% final exam, 20% reports/papers. Exams are semi-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 5626 Nutritional Physiology
A-F only, 3 credit(s);
Instructor: Mashek, Douglas
Description: This course is designed to provide students with an understanding of whole body macronutrient metabolism especially as it relates to the etiology of metabolic diseases. This course will specifically emphasize signaling between tissues to control homeostasis and how dysregulation of this crosstalk can lead to metabolic diseases. We will discuss how organ physiology, diets, dietary components or physiological processes such as exercise, starvation and caloric restriction impact metabolism. Also, the regulation of food intake and energy expenditure will also be covered. We will commonly use primary research articles and often discuss data so that students will have a better understanding of designing, analyzing
and interpreting research data.

**Style:** 100% Lecture.

**Grading:** 50% mid exam, 33% final exam, 17% special projects.

**Nutr 5627 Nutritional and Food Toxicology**
A-F only, 3 credit(s); BIOC 3021; designed for students majoring in [nutrition or food science or toxicology] Credit will not be granted if credit has been received for: FSCN 4622;

**Instructor:** Chen, Chi

**Description:** Course Description Nutritional toxicology is to provide an overview of principles and elements (toxic agents, organisms, and toxic effects) that are important in the toxic events, with a focus on food toxicants and nutrient-toxicant interaction. This course is designed for senior undergraduate and graduate students majoring in Nutrition and other relevant programs. It comprises two parts. Each part has its corresponding exam. Part 1: Principle of toxicology: toxicokinetics; adsorption, distribution, metabolism and excretion (ADME) of xenobiotics; system toxicity; organ toxicity. Part 2: Primary research on food and nutritional toxicology: safety assessment on dietary components; case studies on the toxic (or detoxification) events associated with food intake and environmental exposure; in vivo and in vitro techniques for toxicological research. Course Objectives After taking this course, the students should be able to: ? understand the basic concepts of toxicology ? understand the molecular mechanism behind the chemical-induced toxicities ? comprehend the impact and risk of dietary chemicals to human health ? be capable of critically reviewing the primary research papers in the nutritional toxicology field ? learn the principles of research techniques used in the toxicological projects ? form their own opinion on the risk assessments of dietary components ? address and discuss the issues related to the chemical-induced toxicities Overall, the goal of this course is to provide the students an intellectual platform to comprehend the potential adverse effects of foreign compounds into the biological system. Textbooks and Materials ? Some of course contents are originated from 2 textbooks below: ---Casarett & Doull? s Toxicology, The Basic Science of Poisons. 7th Edition. Edited by Curtis D. Klaassen, 2007 (ISBN-10: 0071470514) ---Food and Nutritional Toxicology. Stanley T. Omeye. CRC Press. 2004. (ISBN-10: 1587160714) ? Handouts, references and reading assignments will be posted at the Moodle site after the lecture.

**Nutr 8620 Advances in Nutrition**
2 credit(s);
**Instructor:** Csallany, A Saari
**Description:** Student may contact the instructor or department for information.

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**Obstetrics and Gynecology** 12-211 MoosT (Box 395 UMHC)

**Obst 8224 Gynecological Endocrinology I**
1-15 credit(s), max credits 15, 1 completion allowed;
**Instructor:** Carson MD, 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;
**Instructor:** Carson MD, 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;
**Instructor:** Carson MD, 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;
**Instructor:** Carson MD, Linda F
**Description:** Student may contact the instructor or department for information.

**Obst 8240 Human Gametes and Fertilization**
3 credit(s);
**Instructor:** Carson MD, Linda F
**Description:** Student may contact the instructor or department for information.

**Obst 8241 Human Gametes and Fertilization Laboratory**
OT 1003 Introduction to Occupational Therapy
1 credit(s);
Instructor: Jacobs, Cindy
Description: This is a fully online section (no face to face classroom sessions) offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently at your own pace in a nine month extended term, beginning the month of registration, with term registrations open each month. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. 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 as well as an outcome. The lessons will describe some of the treatment settings and populations with which you might work as an occupational therapist. The course is offered S/N only, assessments of learning include online quizzes for each lesson, several short-answer written assignments, and a comprehensive open-book style written exam. This course is recommended if you wish to apply to the master's program in occupational therapy at the University of Minnesota.
Style: Online
Grading: See attached syllabus
Exam Format: Final take-home essay.

OT 5395 Independent Study in Occupational Therapy
1-4 credit(s), max credits 16, 16 completions allowed;
Instructor: Martin PhD, Peggy Mae
Description: Student may contact the instructor or department for information.

OT 6200 Public and Professional Engagement II
S-N only, 0.5 credit(s), max credits 1.5, 3 completions allowed;
Instructor: Martin PhD, Peggy Mae
Description: Student may contact the instructor or department for information.

OT 6201 Functional Anatomy and Kinesiology
A-F only, 3 credit(s);
Instructor: Mathiowetz PhD, Virgil G
Description: Student may contact the instructor or department for information.

OT 6202 Occupational Therapy Process for Individuals: Occupation Through Compensation
A-F only, 5 credit(s);
Instructor: Sopeth, Laura Jean
Description: Student may contact the instructor or department for information.

OT 6203 Occupational Therapy Process for Family
A-F only, 2 credit(s);
Instructor: Schaber PhD, Patricia Louise
Description: Student may contact the instructor or department for information.

OT 6213 Occupational Therapy Process for Individuals: Medical Contexts
A-F only, 2 credit(s);
Instructor: Jones, Terrianne Thielen
Description: Student may contact the instructor or department for information.

OT 7201 Scholarly Inquiry in Health Sciences
A-F only, 4 credit(s);
Instructor: Stern PhD, Erica Beth
Description: Student may contact the instructor or department for information.

OT 7596 Occupational Therapy Level II Fieldwork I
S-N only, 6 credit(s);
Instructor: Bourland, Christina H
Description: Student may contact the instructor or department for information.

OT 7696 Occupational Therapy Level II Fieldwork II
S-N only, 6 credit(s);
Instructor: Bourland, Christina H
Description: Student may contact the instructor or department for information.

OT 7796 Occupational Therapy Level II Fieldwork III: Optional
S-N only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Bourland, Christina H
Description: Student may contact the instructor or department for information.

Off-Campus Study 220 Johnston Hall

OCS 3550 National Student Exchange: Off-Campus Study
S-N only, 0 credit(s);
Instructor: STAFF
Description: This course registration allows students to study in a different part of the United States for up to a year through National Student Exchange. There are more than 170 National Student Exchange (NSE) institutions in Hawaii, Florida, and 48 other states and regions, including Puerto Rico, Guam, the Virgin Islands, and Canada. The application deadline for participation in the following academic year is mid-February. Prerequisite: application and acceptance into the National Student Exchange program in the Career and Community Learning Center.

Office of Undergraduate Education 220 Morrill Hall

OUE 1909W Freshman Seminar: Discovery and Conflict in Italy: Galileo on Trial
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Koch, Laura Coffin
Description: Student may contact the instructor or department for information.

OUE 2100 Academic Planning and Exploration
1 credit(s);
Instructor: Reile, Lucy
Description: Student may contact the instructor or department for information.

OUE 2100 Academic Planning and Exploration
1 credit(s);
Instructor: LeBlanc, Susan Lynn
Description: Student may contact the instructor or department for information.

OUE 3050 Introduction to Peer Education
1 credit(s);
Instructor: Walters, Matthew
Description: Student may contact the instructor or department for information.

Ojibwe 19 Scott Hall

OT 7201 Scholarly Inquiry in Health Sciences
A-F only, 4 credit(s);
Instructor: Stern PhD, Erica Beth
Description: Student may contact the instructor or department for information.

OT 7596 Occupational Therapy Level II Fieldwork I
S-N only, 6 credit(s);
Instructor: Bourland, Christina H
Description: Student may contact the instructor or department for information.

OT 7696 Occupational Therapy Level II Fieldwork II
S-N only, 6 credit(s);
Instructor: Bourland, Christina H
Description: Student may contact the instructor or department for information.

OT 7796 Occupational Therapy Level II Fieldwork III: Optional
S-N only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Bourland, Christina H
Description: Student may contact the instructor or department for information.

Off-Campus Study 220 Johnston Hall

OCS 3550 National Student Exchange: Off-Campus Study
S-N only, 0 credit(s);
Instructor: STAFF
Description: This course registration allows students to study in a different part of the United States for up to a year through National Student Exchange. There are more than 170 National Student Exchange (NSE) institutions in Hawaii, Florida, and 48 other states and regions, including Puerto Rico, Guam, the Virgin Islands, and Canada. The application deadline for participation in the following academic year is mid-February. Prerequisite: application and acceptance into the National Student Exchange program in the Career and Community Learning Center.

Office of Undergraduate Education 220 Morrill Hall

OUE 1909W Freshman Seminar: Discovery and Conflict in Italy: Galileo on Trial
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Koch, Laura Coffin
Description: Student may contact the instructor or department for information.

OUE 2100 Academic Planning and Exploration
1 credit(s);
Instructor: Reile, Lucy
Description: Student may contact the instructor or department for information.

OUE 2100 Academic Planning and Exploration
1 credit(s);
Instructor: LeBlanc, Susan Lynn
Description: Student may contact the instructor or department for information.

OUE 3050 Introduction to Peer Education
1 credit(s);
Instructor: Walters, Matthew
Description: Student may contact the instructor or department for information.

Ojibwe 19 Scott Hall

OT 7201 Scholarly Inquiry in Health Sciences
A-F only, 4 credit(s);
Instructor: Stern PhD, Erica Beth
Description: Student may contact the instructor or department for information.

OT 7596 Occupational Therapy Level II Fieldwork I
S-N only, 6 credit(s);
Instructor: Bourland, Christina H
Description: Student may contact the instructor or department for information.

OT 7696 Occupational Therapy Level II Fieldwork II
S-N only, 6 credit(s);
Instructor: Bourland, Christina H
Description: Student may contact the instructor or department for information.

OT 7796 Occupational Therapy Level II Fieldwork III: Optional
S-N only, 1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Bourland, Christina H
Description: Student may contact the instructor or department for information.

Off-Campus Study 220 Johnston Hall

OCS 3550 National Student Exchange: Off-Campus Study
S-N only, 0 credit(s);
Instructor: STAFF
Description: This course registration allows students to study in a different part of the United States for up to a year through National Student Exchange. There are more than 170 National Student Exchange (NSE) institutions in Hawaii, Florida, and 48 other states and regions, including Puerto Rico, Guam, the Virgin Islands, and Canada. The application deadline for participation in the following academic year is mid-February. Prerequisite: application and acceptance into the National Student Exchange program in the Career and Community Learning Center.

Office of Undergraduate Education 220 Morrill Hall

OUE 1909W Freshman Seminar: Discovery and Conflict in Italy: Galileo on Trial
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Koch, Laura Coffin
Description: Student may contact the instructor or department for information.

OUE 2100 Academic Planning and Exploration
1 credit(s);
Instructor: Reile, Lucy
Description: Student may contact the instructor or department for information.
Ojib 1102 Beginning Ojibwe II
5 credit(s); 1101 Credit will not be granted if credit has been received for: OJIB 4102;
Instructor: Jones, Dennis
Description: Student may contact the instructor or department for information.

Ojib 3104 Intermediate Ojibwe II
5 credit(s); 1102, 1102, 3103 Credit will not be granted if credit has been received for: OJIB 4104;
Instructor: Fairbanks, Brendan George
Description: Student may contact the instructor or department for information.

Ojib 3127 Ojibwe Language for Teachers
A-F only, 3 credit(s);
Instructor: Jones, Dennis
Description: Student may contact the instructor or department for information.

Ojib 4102 Beginning Ojibwe II
3 credit(s); 1004 in another language or passing score on LPE or grad student Credit will not be granted if credit has been received for: OJIB 1102;
Instructor: Jones, Dennis
Description: Student may contact the instructor or department for information.

Ojib 4104 Intermediate Ojibwe II
3 credit(s); 1102, 3102 Credit will not be granted if credit has been received for: OJIB 3104;
Instructor: Fairbanks, Brendan George
Description: Student may contact the instructor or department for information.

Ojib 4109 Advanced Ojibwe Language II
A-F only, 3 credit(s);
Instructor: Fairbanks, Brendan George
Description: Student may contact the instructor or department for information.

Ojib 5109 Advanced Ojibwe Language II
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Fairbanks, Brendan George
Description: This class will focus on improving overall speaking skills, pronunciation, stress, intonation, and fluency through immersion. Therefore, this class will be delivered in the Ojibwe language. The use of English will usually be restricted to the explanation of difficult concepts. We will continue to focus on grammar patterns, sentence patterns, reduplication, mii-phrases, discourse markers, as well as the VTA paradigm.

Oral Biology 15-209 MoosT

OBio 8012 Basic Concepts in Skeletal Biology
A-F only, 2 credit(s);
Instructor: Mansky, Kim
Description: Student may contact the instructor or department for information.

OBio 8022 Oral Neuroscience
2 credit(s);
Instructor: Bereiter, David A
Description: Student may contact the instructor or department for information.

OBio 8024 Genetics and Human Disease
1 credit(s);
Instructor: Gopalakrishnan, Rajaram
Description: Student may contact the instructor or department for information.

OBio 8028 Molecular Basis of Cellular and Microbial Adhesion
A-F only, 2 credit(s);
Instructor: Herzberg, Mark C
OBio 8030 Oral Biology Seminar  
 S-N only, 1 credit(s), max credits 10, 10 completions allowed;  
 Instructor: Gopalakrishnan, Rajaram  
 Description: Student may contact the instructor or department for information.

OOral and Maxillofacial Surgery  7-174 MoosT

OSur 5257 Ambulatory General Anesthesia for the Oral and Maxillofacial Surgeon  
 S-N only, 0-6 credit(s), max credits 6, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.

OSur 5276 Medicine Rotation for the Oral and Maxillofacial Surgeon  
 S-N only, 0-6 credit(s), max credits 6, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.

OSur 8250 Oral and Maxillofacial Surgery Rotation for the Oral and Maxillofacial Surgeon  
 S-N only, 0-6 credit(s), max credits 6, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.

OSur 8251 Oral and Maxillofacial Surgery Core Curriculum  
 S-N only, 0-2 credit(s), max credits 2, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.

OSur 8253 Case Presentations and Chief Conferences  
 S-N only, 0-6 credit(s), max credits 6, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.

OSur 8255 General Surgery Rotation for the Oral and Maxillofacial Surgeon  
 S-N only, 0-6 credit(s), max credits 6, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.

OSur 8256 Contemporary Anesthesia Literature Review  
 S-N only, 0-6 credit(s), max credits 6, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.

OSur 8260 Surgical Rounds for the Oral and Maxillofacial Surgeon  
 S-N only, 0-6 credit(s), max credits 6, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.

OSur 8262 Plastic Surgery Rotation for the Oral and Maxillofacial Surgeon  
 S-N only, 0-6 credit(s), max credits 6, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.

OSur 8267 Anesthesia Rotation for the Oral and Maxillofacial Surgeon  
 S-N only, 0-6 credit(s), max credits 6, 1 completion allowed;  
 Instructor: Svoboda, Lance Wayne  
 Description: Student may contact the instructor or department for information.
OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s);
[added to PS note field, course notes sequence nbr 3:]
credit will not be granted if credit already received for:
EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
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.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s);
[added to PS note field, course notes sequence nbr 3:]
credit will not be granted if credit already received for:
EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for:
PA 1961W; Meets CLE req of Writing Intensive
Instructor: Marshall, Scott Ethan
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s);
[added to PS note field, course notes sequence nbr 3:]
credit will not be granted if credit already received for:
EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for:
PA 1961W; Meets CLE req of Writing Intensive
Instructor: Soria, Krista Marie
Description:

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s);
[added to PS note field, course notes sequence nbr 3:]
credit will not be granted if credit already received for:
EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for:
PA 1961W; Meets CLE req of Writing Intensive
Instructor: McFadden, Colin Hamilton
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s);
[added to PS note field, course notes sequence nbr 3:]
credit will not be granted if credit already received for:
EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for:
PA 1961W; Meets CLE req of Writing Intensive
Instructor: LeBlanc, Scott Paul
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s);
[added to PS note field, course notes sequence nbr 3:]
credit will not be granted if credit already received for:
EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for:
PA 1961W; Meets CLE req of Writing Intensive
Instructor: Thomas-Card, Traci Lee
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s);
[added to PS note field, course notes sequence nbr 3:]
credit will not be granted if credit already received for:
EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for:
PA 1961W; Meets CLE req of Writing Intensive
Instructor: Bergner, Rebecca Beatrice
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s);
[added to PS note field, course notes sequence nbr 3:]
credit will not be granted if credit already received for:
EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for:
PA 1961W; Meets CLE req of Writing Intensive
Instructor: Novack, Lisa Marie
Description: Student may contact the instructor or department for information.
OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive
Instructor: Marcy, Ben
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive
Instructor: Rodrigue, Rachel
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive
Instructor: Taylor Jr, Leonard
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive
Instructor: Skrebes, Robyn Jane
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive
Instructor: Stafford, Jeff
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive
Instructor: Heineman, Colby
Description: Student may contact the instructor or department for information.

OLPD 1301W Personal Leadership in the University
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1301W/EdPA 1302/PA 1961W/CFAN 3480/CFAN 1101
Credit will not be granted if credit has been received for: PA 1961W; Meets CLE req of Writing Intensive
Instructor: Routman, Sarah Lynn
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.

OLPD 1302 Personal Leadership in the University
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1302 or EdPA 1301W
Credit will not be granted if credit has been received for: PA 1961W;
Instructor: Mohajeri, Orkideh
Description: Student may contact the instructor or department for information.

OLPD 1302 Personal Leadership in the University
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1302 or EdPA 1301W
Credit will not be granted if credit has been received for: PA 1961W;
Instructor: Maeker, Paul Keith  
Description: Student may contact the instructor or department for information.

OLPD 1302 Personal Leadership in the University  
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1302 or EdPA 1301W  
Credit will not be granted if credit has been received for: PA 1961W  
Instructor: Omari, Abdul Majid  
Description: Student may contact the instructor or department for information.

OLPD 1302 Personal Leadership in the University  
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1302 or EdPA 1301W  
Credit will not be granted if credit has been received for: PA 1961W  
Instructor: Fitzgerald-Sisk, Meg  
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: 5% Lecture, 30% Discussion, 25% Laboratory, 30% Small Group Activities, 5% Student Presentation, 5% Service Learning. Active learning classroom. Laboratory = practical application of concepts learned/discussed

OLPD 1302 Personal Leadership in the University  
A-F only, 3 credit(s); credit will not be granted if credit already received for: EdPA 1302 or EdPA 1301W  
Credit will not be granted if credit has been received for: PA 1961W  
Instructor: Campbell, Anne Crist  
Description: Student may contact the instructor or department for information.

OLPD 2811 Societies of the Future: Changing Work Contexts  
A-F only, 3 credit(s); Meets CLE req of Technology and Society  
Instructor: Fitzgerald-Sisk, Meg  
Description: Student may contact the instructor or department for information.

OLPD 2811H Societies of the Future: Changing Work Contexts, Honors  
A-F only, 3 credit(s); Meets CLE req of Technology and Society  
Instructor: Fitzgerald-Sisk, Meg  
Description: Student may contact the instructor or department for information.

OLPD 3202 Introduction to Strategies for Teaching Adults  
A-F only, 3 credit(s);  
Instructor: Park, Rosemarie J  
Description: Best practice theories and practices of adult teaching and learning are the focus of this course. This course covers a variety of teaching and learning perspectives, learner and instructor styles, methods that align with the perspectives of teaching, applications of teaching in diverse settings, a site visit (student choice) to assess best practices when teaching adults, a micro-teaching (group or alone), and learners crafting a teaching philosophy. By the end of AdEd 3101 learners will be able to: - Create a comprehensive glossary for relevant course terms, theorists, and MN organizations focused on teaching or training adults. - Identify and compare teaching and learning strategies and distinguish best practice strategies for the perspectives. - Identify why you and other adults resist learning, and, recommend best practice strategies for addressing learning resistance. - Identify best practice suggestions for teaching in diverse settings, and apply these to modify international training games to reflect best practice suggestions. - Describe possible ethical issues with teaching and learning. - Assess and present on dominant teaching and learning perspectives and practices used during your site visit observation, and, recommend course design and delivery improvements for site visit instructor(s). - Apply best practice suggestions from the course to design and deliver 15 minutes of face-to-face, blended, or online instruction on topic of choice. - Formulate your teaching philosophy and best practice preferences for teaching others.  
Style: 10% Lecture, 10% Film/Video, 40% Discussion, 10% Small Group Activities, 20% Student Presentation, 10% Field Trips. This course is taught half-in-class and half online.  
Grading: 66% - Weekly Assignments, Discussion Postings and Class Participation (attendance) 11% - Teaching and Learning Case Study 11% - Micro Teaching Assignment (assignment + group evaluation) 12% - Ethics and Teaching Philosophy

OLPD 3202 Introduction to Strategies for Teaching Adults  
A-F only, 3 credit(s);  
Instructor: Digby PhD, Cynthia LB  
Description: Best practice theories and practices of adult teaching and learning are the focus of this course. This course
covers a variety of teaching and learning perspectives, learner and instructor styles, methods that align with the perspectives of teaching, applications of teaching in diverse settings, a site visit (student choice) to assess best practices when teaching adults, a micro-teaching (group or alone), and learners crafting a teaching philosophy. By the end of AdEd 3101 learners will be able to: - Create a comprehensive glossary for relevant course terms, theorists, and MN organizations focused on teaching or training adults. - Identify and compare teaching and learning strategies and distinguish best practice strategies for the perspectives. - Identify why you and other adults resist learning, and, recommend best practice strategies for addressing learning resistance. - Identify best practice suggestions for teaching in diverse settings, and apply these to modify international training games to reflect best practice suggestions. - Describe possible ethical issues with teaching and learning. - Assess and present on dominant teaching and learning perspectives and practices used during your site visit observation, and, recommend course design and delivery improvements for site visit instructor(s). - Apply best practice suggestions from the course to design and deliver 15 minutes of face-to-face, blended, or online instruction on topic of choice. - Formulate your teaching philosophy and best practice preferences for teaching others.

**Style:** 10% Lecture, 10% Film/Video, 40% Discussion, 10% Small Group Activities, 20% Student Presentation, 10% Field Trips. This course is taught half in-class and half online.

**Grading:** 66% - Weekly Assignments, Discussion Postings and Class Participation (attendance) 11% - Teaching and Learning Case Study 11% - Micro Teaching Assignment (assignment + group evaluation) 12% - Ethics and Teaching Philosophy

**OLPD 3302 Leadership, You, and Your Community**
A-F only, 3 credit(s);[1301W or 1302 or PA 1961W or CFAN 1101 or CFAN 3480], grade of at least C credit will not be granted if credit already received for: EdPA 3302Credit will not be granted if credit has been received for: PA 3961;  
**Instructor:** Marcy, Ben  
**Description:** Student may contact the instructor or department for information.

**OLPD 3302 Leadership, You, and Your Community**
A-F only, 3 credit(s);[1301W or 1302 or PA 1961W or CFAN 1101 or CFAN 3480], grade of at least C credit will not be granted if credit already received for: EdPA 3302Credit will not be granted if credit has been received for: PA 3961;  
**Instructor:** Skrebes, Robyn Jane  
**Description:** Student may contact the instructor or department for information.

**OLPD 3302 Leadership, You, and Your Community**
A-F only, 3 credit(s);[1301W or 1302 or PA 1961W or CFAN 1101 or CFAN 3480], grade of at least C credit will not be granted if credit already received for: EdPA 3302Credit will not be granted if credit has been received for: PA 3961;  
**Instructor:** Harris, Margaret McKenny  
**Description:** Student may contact the instructor or department for information.

**OLPD 3306 Leadership Minor: Field Experience**
A-F only, 3 credit(s);[3302 with grade of at least C credit will not be granted if credit already received for: EdPA 3402Credit will not be granted if credit has been received for: PA 3971;  
**Instructor:** Ve Lure Roholt, Christine Elizabeth  
**Description:** Student may contact the instructor or department for information.

**OLPD 3306 Leadership Minor: Field Experience**
A-F only, 3 credit(s);[3302 with grade of at least C credit will not be granted if credit already received for: EdPA 3402Credit will not be granted if credit has been received for: PA 3971;  
**Instructor:** Frazzini, Ronald Michael  
**Description:** Student may contact the instructor or department for information.

**OLPD 3306 Leadership Minor: Field Experience**
A-F only, 3 credit(s);[3302 with grade of at least C credit will not be granted if credit already received for: EdPA 3402Credit will not be granted if credit has been received for: PA 3971;  
**Instructor:** Marcy, Ben  
**Description:** Student may contact the instructor or department for information.

**OLPD 3310 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.

**OLPD 3318 Introduction to Project Management**
OLPD 3318 Introduction to Project Management
3 credit(s);
Instructor: Fitzgerald-Sisk, Meg
Description: The focus of this course is project management for business and industry. Students will learn the basics of project management, project lifecycles, deliverables, and processes as they are commonly used in the workplace. By the end of the course, students will be able to 1. distinguish between projects, programs, and phases, 2. distinguish between project management processes and project processes, 3. choose the appropriate elements and activities from the project management process to use for any given project, 4. design a project management plan, 5. analyze the risk of a proposed project and develop a risk management plan, 6. distinguish between change management, change control, quality assurance, and quality control, and design management plans for each, 7. predict the outcome of a project, given specific information about the process at the midpoint, 8. justify and plan for a go/no-go decision based on project status reports, and 9. evaluate a project at its close.
Style: 10% Lecture, 5% Film/Video, 40% Discussion, 35% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.
Grading: 25% mid exam, 25% final exam, 15% special projects, 10% in-class presentation, 25% class participation.

OLPD 3336 Religion, Ethics, and Educational Policy
3 credit(s); Meets CLE req of Civic Life and Ethics
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, 25% reflection paper, 15% class participation.

OLPD 3401 Teaching Marketing Promotion
A-F only, 3 credit(s);
Instructor: Plachecki, Frank John
Description: Student may contact the instructor or department for information.

OLPD 3424 Sales Training
A-F only, 3 credit(s);
Instructor: Gaddey Jr, Roy Arthur
Description: The class will provide an introduction to the skills and characteristics needed to be successful in sales. The course will cover: * Developing a Personal Selling Philosophy * Developing a Relationship Strategy * Developing a Product Strategy * Developing a Customer Strategy * Developing a Presentation Strategy * Management of Self

OLPD 3496 Profession and Practice of Business and Marketing Education
A-F only, 2 credit(s);
Instructor: Vanacora, Cheryl Ann
Description: Student may contact the instructor or department for information.

OLPD 3601 Introduction to Human Resource Development
A-F only, 3 credit(s);
Instructor: Quast, Louis Neumann
Description: This course provides an introduction to Human Resource Development (HRD) theories, principles, concepts, and practices. CLASS STRUCTURE: Class sessions include lectures, small and large discussion groups, and audio-visual materials. During class we will strive to clarify, supplement, and analyze text materials. We will learn much more from each other’s opinions, knowledge and experience, and active participation is a required part of this course. You will have a variety of sources, including assigned readings and other materials presented in class. COURSE OUTCOMES Upon completion of the course, students will be able to: 1) Describe the economic, psychological, cultural, and technological forces within which HRD functions; 2) Explain HRD as a discipline, a professional field of practice, and its history; 3) Discuss the theory and philosophy of HRD; 4) Contrast the alternative perspectives within HRD; 5) Describe the
development of human expertise through personnel training and development; 6) Explain how organization development contributes to improved organizational effectiveness in the face of change, and; 7) Discuss the forces shaping human resource development in the 21st century (e.g., career development, strategic roles, accountability, globalization, and technology).

OLPD 3620 Introduction to Training and Development  
A-F only, 3 credit(s);  
Instructor: Novillo,Walter E.  
Description: Student may contact the instructor or department for information.

OLPD 3620 Introduction to Training and Development  
A-F only, 3 credit(s);  
Instructor: Gemechu,Tinsae Geneti  
Description: Student may contact the instructor or department for information.

OLPD 3640 Introduction to Organization Development  
A-F only, 3 credit(s);  
Instructor: De Georgeo,Michael R  
Description: Student may contact the instructor or department for information.

OLPD 3640 Introduction to Organization Development  
A-F only, 3 credit(s);  
Instructor: Hahn,Huh Jung  
Description: Student may contact the instructor or department for information.

OLPD 3696 Profession and Practice of Human Resource Development  
A-F only, 2 credit(s);  
Instructor: Vanacora,Cheryl Ann  
Description: Student may contact the instructor or department for information.

OLPD 3801 Foundations of Philosophy and Practice of Career and Technical Education  
A-F only, 2 credit(s);  
Instructor: Schill,Jayne Greeney  
Description: Student may contact the instructor or department for information.

OLPD 3828 Diversity in the Workplace  
A-F only, 3 credit(s);  
Instructor: Pabon,Maria  
Description: Student may contact the instructor or department for information.

OLPD 3861 Foundations of Instructional Methods for Business and Industry  
A-F only, 2 credit(s);  
Instructor: Wegener,Inger  
Description: Student may contact the instructor or department for information.

OLPD 4303W Leadership for Global Citizenship  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Werner,Linnette  
Description: Student may contact the instructor or department for information.

OLPD 4303W Leadership for Global Citizenship  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Ve Lure Roholt,Christine Elizabeth  
Description: Student may contact the instructor or department for information.

OLPD 4303W Leadership for Global Citizenship  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Digby PhD,Cynthia LB  
Description: Student may contact the instructor or department for information.
OLPD 4401 E-Marketing
A-F only, 3 credit(s);
Instructor: Novillo,Walter E.
Description: Student may contact the instructor or department for information.

OLPD 4426 Strategic Customer Relationship Management
A-F only, 3 credit(s);
Instructor: Novillo,Walter E.
Description: Student may contact the instructor or department for information.

OLPD 4426 Strategic Customer Relationship Management
A-F only, 3 credit(s);
Instructor: Woldeab PhD,Daniel
Description: Student may contact the instructor or department for information.

OLPD 4426 Strategic Customer Relationship Management
A-F only, 3 credit(s);
Instructor: Mueller,Wayne G
Description: Student may contact the instructor or department for information.

OLPD 4496 Applied Experience in Business & Marketing Education
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Gaddey Jr,Roy Arthur
Description: Student may contact the instructor or department for information.

OLPD 4696 Internship: Human Resource Development
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Vanacora,Cheryl Ann
Description: Student may contact the instructor or department for information.

OLPD 4870 Introduction to Integrating Human Rights into Organizational Leadership
A-F only, 3 credit(s);
Instructor: Rudelius-Palmer,Kristi Lynn
Description: COURSE DESCRIPTION In the last few decades, some business organizations have increasingly embraced their responsibility to contribute to the promotion and protection of human rights, while others are still struggling with their moral and legal obligations. What are human rights and what do they mean for business professionals today? What policies and practices exist locally and internationally to integrate human rights into organizational leadership and management? How do we integrate human rights through human rights education, training, and organization culture? This course provides a foundation of knowledge about Human Rights and creates a forum to explore these issues. COURSE OBJECTIVES 1. Articulate and discuss major international human rights documents; 2. Identify and discuss elements of the Human Rights Management Framework; 3. Identify and research strategies, policies, practices, and norms related to integrating human rights into organizational leadership and management; 4. Understand the role and impact of businesses in the promotion and protection of human rights; 5. Analyze business-related human rights policies and strategies for promoting and protecting human rights in the workplace; 6. Apply Human Rights Education methods to facilitate discussions and training about human rights-friendly business practices; 7. Represent human rights and organizational leadership and management concepts creatively in a multi-media format.
Style: This is an online, web-based course, and all students are expected to have internet access and a basic understanding of computer use. Students are expected to check email at least once every 48 hours. More guidelines in class.
Grading: 22% reports/papers, 42% special projects, 36% class participation.

OLPD 5001 Formal Organizations in Education
3 credit(s);
Instructor: Anderson,Melissa S.
Description: This course presents four frameworks that can be used for understanding organizations, how they work, and how people in them behave. It then branches out to other organizational topics such as conflict, communication and leadership. The class sessions combine lectures and interactive exercises. Most people complete the course with greatly enhanced insight as to how organizations--especially schools, colleges, and universities--work. The course is geared toward graduate students.
Style: 25% Lecture, 50% Discussion. in-class projects
Grading: 20% final exam, 65% reports/papers, 15% class participation.
OLPD 5044 Introduction to the Economics of Education  
3 credit(s);  
Instructor: Alexander, Nicola  
Description: Student may contact the instructor or department for information.

OLPD 5061 Ethnographic Research Methods  
3 credit(s);  
Instructor: Johnstone, Christopher J  
Description: Student may contact the instructor or department for information.

OLPD 5080 Special Topics: Organizational Leadership, Policy, & Development  
1-3 credit(s), max credits 24, 24 completions allowed;  
Instructor: Storm PhD, Karen Jacobson  
Description: Student may contact the instructor or department for information.

OLPD 5080 Special Topics: Organizational Leadership, Policy, & Development  
1-3 credit(s), max credits 24, 24 completions allowed;  
Instructor: Goh PhD, Michael P.  
Description: Student may contact the instructor or department for information.

OLPD 5080 Special Topics: Organizational Leadership, Policy, & Development  
1-3 credit(s), max credits 24, 24 completions allowed;  
Instructor: Hendel, Darwin Dale  
Description: Student may contact the instructor or department for information.

OLPD 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.

OLPD 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.

OLPD 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.

OLPD 5121 Educational Reform in International Context  
3 credit(s);  
Instructor: Eschenbacher, Heidi  
Description: Student may contact the instructor or department for information.

OLPD 5124 Critical Issues in International Education and Educational Exchange  
3 credit(s);  
Instructor: D’Angelo, Anne Marie  
Description: Student may contact the instructor or department for information.

OLPD 5128 Anthropology of Education  
3 credit(s); credit will not be granted if credit already received for: EdPA 5128  
Instructor: Demerath, Peter  
Description: Student may contact the instructor or department for information.
OLPD 5201 Strategies for Teaching Adults
A-F only, 3 credit(s);
Instructor: Park, Rosemarie J
Description: Student may contact the instructor or department for information.

OLPD 5204 Designing the Adult Education Program
A-F only, 3 credit(s);
Instructor: Twohig, Catherine Carol
Description: Student may contact the instructor or department for information.

OLPD 5211 Introduction to the Undereducated Adult
A-F only, 1 credit(s);
Instructor: Digby PhD, Cynthia LB
Description: OLPD 5211: This course focuses on issues of adult literacy, and best practices when teaching adult basic education, and/or adult English Language Learners in the workplace or in your community. We will briefly consider: who the undereducated adults are in our society, what literacy means, what the statistics indicate about poverty and education, what the statistics indicate about lower levels of literacy and the work prospects for adults who have lower levels of literacy, adult basic education and adult English Language Learning options in Minnesota, and best practices when teaching adult basic education and adult English Language Learning.
Style: 100% Web Based.
Grading: 75% - Weekly Assignments, Discussion Postings and Responses to others, and Wiki Assignment Posting and Editing 25% - Final/Site Visit Assignment

OLPD 5224 Formal Assessment of Adult Literacy
A-F only, 1 credit(s);
Instructor: Twohig, Catherine Carol
Description: Student may contact the instructor or department for information.

OLPD 5225 Informal Assessment of Adult Literacy
A-F only, 1 credit(s);
Instructor: Twohig, Catherine Carol
Description: Student may contact the instructor or department for information.

OLPD 5233 Methods of Teaching Beginning Adult Literacy
A-F only, 1 credit(s);
Instructor: Twohig, Catherine Carol
Description: Student may contact the instructor or department for information.

OLPD 5234 Methods of Teaching Intermediate Adult Literacy
A-F only, 1 credit(s);
Instructor: Twohig, Catherine Carol
Description: Student may contact the instructor or department for information.

OLPD 5235 Methods of Teaching Advanced Adult Literacy
A-F only, 1 credit(s);
Instructor: Twohig, Catherine Carol
Description: Student may contact the instructor or department for information.

OLPD 5296 Field Experience in Adult Education
S-N only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Quast, Louis Neumann
Description: Student may contact the instructor or department for information.

OLPD 5296 Field Experience in Adult Education
S-N only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Twohig, Catherine Carol
Description: Student may contact the instructor or department for information.

OLPD 5310 Data-Driven Decision Making I
1 credit(s);
Instructor: Nielsen, Kristine Bryan
Description: Student may contact the instructor or department for information.

OLPD 5323 Women in Leadership
3 credit(s);
Instructor: Brunner PhD, C
Description: Provides opportunities for male and female students to consider, learn about, explore, examine, research, think about, and discuss the topic of women in leadership within the context of larger systems and their own lives. Designed to advance the greater aims of supporting equity and equality across all areas of difference.

OLPD 5324 Strategic Financial Planning and Policy for Educational Leaders
3 credit(s);
Instructor: Alexander, Nicola
Description: Provides an overview of state-local school finance systems, budgeting, governmental fund accounting, and interpretation of financial information. For graduate students pursuing licensure as elementary-secondary principals and superintendents.

OLPD 5348 Leaders of Human Resources Administration
3 credit(s);
Instructor: Lovett, Michael James
Description: Student may contact the instructor or department for information.

OLPD 5356 Disability Policy and Services
3 credit(s);
Instructor: Hewitt, Amy S
Description: Student may contact the instructor or department for information.

OLPD 5361 Project in Teacher Leadership
OPT No Aud, 3 credit(s); MEd student in Teacher Leadership Program credit will not be granted if credit already received for: EdPA 5361 Credit will not be granted if credit has been received for: CI 5178;
Instructor: Brunner PhD, C
Description: Student may contact the instructor or department for information.

OLPD 5368 Leadership for Special Education Services
3 credit(s);
Instructor: Sonenblum, Christine W
Description: Class Description: Overview of special services administration including curriculum and instruction, finance, personnel and, legislative, procedural, executive, and judicial actions that affect the management and administration of services to children with special needs and their families within public education. For administrators, supervisors, and other professionals responsible for providing leadership in general and special education programs. Style: 30% Lecture, 3% Film/Video, 20% Discussion, 20% Small Group Activities, 15% Student Presentation, 2% Guest Speakers, 10% Web Based.

OLPD 5386 Leadership Portfolio Seminar
S-N only, 1 credit(s);
Instructor: Latimer, Sally
Description: Student may contact the instructor or department for information.

OLPD 5387 Leadership for Teaching and Learning
3 credit(s);
Instructor: Brunner PhD, C
Description: Student may contact the instructor or department for information.

OLPD 5389 Community Education Leadership
3 credit(s);
Instructor: Latimer, Sally
Description: Philosophy/administration of community/alternative education programs. Competencies of leadership, community relations, communication, community assessment, program development, program evaluation. This class meets once on campus and the remaining classes are online. Two online classes are in real time.
OLPD 5396 Field Experience in PK-12 Administration: Authentic Practice in Leadership
S-N only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Dragseth,Kenneth Allen
Description: This course provides practical field experience for aspiring school administrators who are seeking Minnesota licensure as PK-12 Principal, District Superintendent, Director of Special Education, or Director of Community education. It features practical experience in the appropriate field under the guidance of a practicing school administrator and the University instructor. Each planned field experience (internship) is designed by the mentoring administrator, the university instructor, and the administrative intern based upon the State of Minnesota required competencies for each administrative license and the student's preassessment of competencies. Four required plus four elective administrative projects are required of each class member.
Grading: 75% special projects, 10% attendance, 15% class participation. S/N

OLPD 5396 Field Experience in PK-12 Administration: Authentic Practice in Leadership
S-N only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Scearcy,Lynn R
Description: This course provides practical field experience for aspiring school administrators who are seeking Minnesota licensure as PK-12 Principal, District Superintendent, Director of Special Education, or Director of Community education. It features practical experience in the appropriate field under the guidance of a practicing school administrator and the University instructor. Each planned field experience (internship) is designed by the mentoring administrator, the university instructor, and the administrative intern based upon the State of Minnesota required competencies for each administrative license and the student's preassessment of competencies. Four required plus four elective administrative projects are required of each class member.
Grading: 75% special projects, 10% attendance, 15% class participation. S/N

OLPD 5501 Principles and Methods of Evaluation
3 credit(s);credit will not be granted if credit already received for: EdPA 5501Credit will not be granted if credit has been received for: EPSY 5243;
Instructor: STAFF
Description: Student may contact the instructor or department for information

OLPD 5524 Evaluation Colloquium
S-N only, 1 credit(s), max credits 24, 24 completions allowed;[5501 or EDPA], [5501 or EPSY 5243] credit will not be granted if credit already received for: EdPA 5524Credit 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.

OLPD 5604 Systems Foundation of Human Resource Development
1 credit(s);
Instructor: Mathews,Melissa
Description: Student may contact the instructor or department for information.

OLPD 5605 Strategic Planning through Human Resources
A-F only, 3 credit(s);
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.

OLPD 5607 Organization Development
A-F only, 3 credit(s);
Instructor: Christesen,David Allen
Description: This course provides an overview of organization development theories and practices. Organizational
Development (OD) is a conscious, planned process of developing an organization's capabilities so that it can attain and sustain an optimum level of performance as measured by efficiency, effectiveness, and health. Through the process of OD, we attempt to bring about successful change efforts in individual employees, groups and teams, inter-groups, and organizations. At any of these levels of analysis, when we use the process of OD we are essentially asking: -Where are we? -Where do we want to be? -How do we get from where we are to where we want to be? To achieve a competitive advantage globally, contemporary organizations are in a continuous state of change. Within such a complex system as an organization, change has a rippling effect. For instance, technological innovation is not limited to hardware and software. It has an impact, sometimes quite dramatic, economically, politically, socially, legally, organizationally, and even personally. Given the magnitude of change taking place at the beginning of the 21st century, it is important for HR, OB, and Evaluation professionals to examine the theories and models, and methods and processes related to organizational change. In this course, we will focus on those methods, interventions, models, and processes specifically related to diagnosing and planning for organizational change.

OLPD 5610 Survey of Research Methods and Emerging Research in Human Resource Development
A-F only, 3 credit(s);
Instructor: Brown, James Marce
Description: Student may contact the instructor or department for information.

OLPD 5611 Facilitation and Meeting Skills
1 credit(s);
Instructor: Mathews, Melissa
Description: Student may contact the instructor or department for information.

OLPD 5615 Training and Development of Human Resources
A-F only, 3 credit(s);
Instructor: Christesen, David Allen
Description: Student may contact the instructor or department for information.

OLPD 5619 Planning and Decision-Making Skills
1 credit(s);
Instructor: Mathews, Melissa
Description: Student may contact the instructor or department for information.

OLPD 5696 Internship: Human Resource Development
S-N only, 1-10 credit(s), max credits 10, 1 completion allowed;
Instructor: Christesen, David Allen
Description: Student may contact the instructor or department for information.

OLPD 5704 College Students Today
3 credit(s); credit will not be granted if credit already received for: EdPA 5704; Credit will not be granted if credit has been received for: EPSY 5451;
Instructor: Gupton, Jarrett Temple
Description: Student may contact the instructor or department for information.

OLPD 5709 Critical Issues in Higher Education
A-F only, 3 credit(s);
Instructor: Gupton, Jarrett Temple
Description: Student may contact the instructor or department for information.

OLPD 5724 Leadership and Administration of Student Affairs
2-3 credit(s), max credits 3, 1 completion allowed; credit will not be granted if credit already received for: EdPA 5724; Credit will not be granted if credit has been received for: EPSY 5421;
Instructor: Nobbe, June Elly
Description: Student may contact the instructor or department for information.

OLPD 5732 The Law and Postsecondary Institutions
3 credit(s);
Instructor: Miksch, Karen L
Description: Student may contact the instructor or department for information.
OLPD 5806 Philosophy and Practice of Career and Technical Education  
A-F only, 2 credit(s);  
Instructor: Schill, Jayne Greeney  
Description: Student may contact the instructor or department for information.

OLPD 5819 Evaluating and Using Research in Organizations and Education  
A-F only, 3 credit(s);  
Instructor: Peterson, Shari L  
Description: Student may contact the instructor or department for information.

OLPD 5822 Work-Based Learning Practices  
3 credit(s);  
Instructor: Brown, James Marge  
Description: Student may contact the instructor or department for information.

OLPD 5861 Instructional Methods for Business and Industry  
2 credit(s);  
Instructor: Wegener, Inger  
Description: Student may contact the instructor or department for information.

OLPD 5893 Directed Study in WHRE  
1-4 credit(s), max credits 4, 4 completions allowed;  
Instructor: Quast, Louis Neumann  
Description: Student may contact the instructor or department for information.

OLPD 6402 Integrative Leadership Seminar  
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: MGMT 6402;  
Instructor: White, Katie Marie  
Description: This is an interdisciplinary, 3-credit seminar led by co-instructors from multiple schools of the university. Students will: a) learn to recognize and diagnose integrative leadership challenges and opportunities; b) build their own capacities to practice integrative leadership through group work in individualized peer-to-peer coaching in diverse teams and through being exposed to a range of boundary work practices; and c) gain better knowledge of the leadership contexts within their own profession and in other sectors. We emphasize contexts for integrative leadership at five basic levels: within individuals, within and across groups, within and across organizations, within and across sectors, and at the societal scale. Learning occurs through reading foundational materials, personal leadership coaching, engaging extensively with examples from guest speakers and case materials, developing a group capstone project on integrative leadership, and iteratively co-producing an understanding of what integrative leadership is. This course is sponsored by four departments. If PA 5105 shows as full, please check for space under the other departments - MGMT 6402, OLPD 6402, and PubH 6702. They are all for the same class, with the same instructors, meeting at the same time. Every section in all four schools must be filled before any over-ride permission numbers are issued. If all class sections are full, please contact Merrie Benasutti at the Center for Integrative Leadership (624-8300) for a permission number.  
Style: 15% Lecture, 20% Discussion, 25% Small Group Activities, 10% Student Presentation, 15% Guest Speakers, 15% Web Based.  
Grading: 30% reports/papers, 30% reflection paper, 20% class participation, 20% other evaluation. Participation in class-based learning and discussion - 20% Biweekly reading notes and biweekly reflection notes - 30% Team case study project research, presentation, and report - 30% Integrative leadership peer-to-peer coaching: 20%

OLPD 8015 Research Design and Educational Policy  
A-F only, 3 credit(s);  
Instructor: Shirazi, Roozbeh  
Description: Student may contact the instructor or department for information.

OLPD 8095 Problems: Educational Policy and Administration  
1-3 credit(s), max credits 24, 24 completions allowed;  
Instructor: Magnuson PhD, Deanne L.  
Description: Student may contact the instructor or department for information.
OLPD 8095 Problems: Educational Policy and Administration
1-3 credit(s), max credits 24, 24 completions allowed;
Instructor: Goh PhD, Michael P.
Description: Student may contact the instructor or department for information.

OLPD 8121 Doctoral Seminar: Comparative and International Development Education
S-N only, 1-6 credit(s), max credits 6, 4 completions allowed;
Instructor: Dejaeghere, Joan Geralyn
Description: Student may contact the instructor or department for information.

OLPD 8121 Doctoral Seminar: Comparative and International Development Education
S-N only, 1-6 credit(s), max credits 6, 4 completions allowed;
Instructor: Shirazi, Roozbeh
Description: Student may contact the instructor or department for information.

OLPD 8502 Program Evaluation Theory and Models: Qualitative and Quantitative Alternatives
3 credit(s);
Instructor: Yeh, Stuart S
Description: EdPA 8502 is an intermediate-level seminar course focusing on analysis of problems and issues in evaluation. The course text is a set of key articles by major figures in the field of evaluation. The course begins with an examination of a basic problem facing evaluators—the difficulty of conducting valid evaluations of complex social and educational programs and policies. Each evaluation approach is then examined as a response to this problem of complexity.
Style: 30% Lecture, 70% Discussion.
Grading: 50% term paper, 10% class participation, 40% group papers

OLPD 8595 Evaluation Problems
1-6 credit(s), max credits 24, 24 completions allowed; [5501 or EDPA 5501 or EPSY 5243], instr consent credit will not be granted if credit already received for: EdPA 8595 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.

OLPD 8596 Evaluation Internship
1-9 credit(s), max credits 24, 24 completions allowed;
Instructor: Yeh, Stuart S
Description: Student may contact the instructor or department for information.

OLPD 8602 Advanced Organization Development
A-F only, 3 credit(s);
Instructor: Ardichvili, Alexandre A
Description: This course is focused on an in-depth investigation of organization development (OD) theory and research, and a critical review of selected practices. The course is a primary elective for HRDWE graduate students focusing on OD and is a required course for students in HRD M.A., Ed.D., and Ph.D. programs who have already taken HRD 5301 (OLPD5607) Organization Development, or its equivalent. Prerequisites HRD 5301 (OLPD5607) or HRD3301 (OLPD3640): Organization Development, or concurrent, or with instructor’s permission based on experience; Graduate Student Course Objectives By the completion of this course, students will have: 1. Identified, articulated, compared, and facilitated a class session on views and approaches to a specific organization development issue 2. Discussed the OD issues in the broad, global context 3. Read research and writings foundational to the practice and theory of OD, as identified by the instructor, colleagues and individually 4. Synthesized and integrated the literature related to their identified OD topic, appropriate for conference presentation and submission to a refereed journal 5. Interconnect as a scholarly community regarding the implications of theory and practice in organization development Instructional Strategies The course will primarily utilize student-guided seminars, scholarly dialogue, and written assignments.

OLPD 8702 Administration and Leadership in Higher Education
3 credit(s);
Instructor: Weerts, David J
Description: Student may contact the instructor or department for information.

OLPD 8812 Quantitative Research in Education
3 credit(s);
Instructor: Upadhyay, Bhaskar  
Description: Student may contact the instructor or department for information.

OLPD 8842 Comparative Systems in Work and Human Resource Education  
3 credit(s);  
Instructor: Ardichvili, Alexandre A  
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;  
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;  
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;  
Instructor: Pliska DDS, MS, Benjamin T  
Description: Student may contact the instructor or department for information.

**Otho 8133 Topics in Orthodontics**  
A-F only, 0-5 credit(s), max credits 5, 1 completion allowed;  
Instructor: Ekim, 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;  
Instructor: Miller DDS, MS, James Robert  
Description: Student may contact the instructor or department for information.

**Otolaryngology**  
8-240 PWB (Mayo Mail Code 396)

**Otol 8248 Directed Readings in Auditory Physiology**  
1-2 credit(s), max credits 2, 1 completion allowed; instr consent Credit will not be granted if credit has been received for: NSC 8248;  
Instructor: Anderson, John Harold  
Description: Student may contact the instructor or department for information.

**Otol 8250 Advanced Biochemistry of the Auditory System**  
1 credit(s);  
Instructor: Juhn, Steven Sung-Kyun  
Description: Student may contact the instructor or department for information.

**Pediatric Dentistry**  
6-150 MoosT

**PDen 7000 Directed Research in Pediatric Dentistry**  
S-N only, 1 credit(s);  
Instructor: Jones, Robert S
Description: Student may contact the instructor or department for information.

**PDen 7010 Fundamentals of Pediatric Dentistry**
A-F only, 0-2 credit(s), max credits 2, 1 completion allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

**PDen 8010 Pediatric Dentistry Diagnosis and Treatment Planning**
S-N only, 1 credit(s), max credits 5, 5 completions allowed;
Instructor: Grothe,Ronald
Description: Student may contact the instructor or department for information.

**PDen 8100 Hospital Pediatric Dentistry**
S-N only, 1 credit(s);
Instructor: Grothe,Ronald
Description: Student may contact the instructor or department for information.

**PDen 8110 Pediatric Dentistry Outreach Experiences**
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Grothe,Ronald
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);
Instructor: Potegal,Michael
Description: Student may contact the instructor or department for information.

**Pharmaceutics 9-177 Weaver-Densford Hall**

**Phm 8100 Seminar: Pharmaceutics**
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Elmquist,William Frederick
Description: Student may contact the instructor or department for information.

**Phm 8110 Readings in Pharmaceutics**
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Sun,Calvin
Description: Student may contact the instructor or department for information.

**Phm 8120 Readings in Central Nervous System (CNS) Drug Delivery**
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Fairbanks,Carolyn Ann
Description: Student may contact the instructor or department for information.

**Phm 8150 Pharmacokinetics Research Seminar**
S-N only, 1 credit(s), max credits 12, 12 completions allowed;Grad Phm majorCredit will not be granted if credit has been received for: PHAR 6223;
Instructor: Elmquist,William Frederick
Description: Student may contact the instructor or department for information.

**Phm 8431 Controlled Drug and Gene Delivery: Materials, Mechanisms, and Models**
A-F only, 4 credit(s);Differential equations course including introduction to partial differential equations or instr consent Credit will not be granted if credit has been received for: BMEN 8431;
Instructor: Siegel,Ronald Alan
Description: Student may contact the instructor or department for information.
Phm 8441 Solubility and Solid-State Properties of Drugs
A-F only, 3 credit(s);
Instructor: Sun, Calvin
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);
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. Optional Textbook: "Pharmacology Condensed, 2nd Edition", Dale and Haylette, Churchill Livingstone (2009). Additional Info: Please contact course directors directly or visit the website: Class URL: http://www.pharmacology.med.umn.edu/PHCL3100.html

Phcl 4003 Anti-infective drugs: Drugs that kill invaders
A-F only, 2 credit(s);
Instructor: Hiasa, Hiroshi
Description: Principles/mechanisms of anti-infective drugs, and treatments of infectious diseases.

Phcl 4993 Directed Studies
S-N only, 1-3 credit(s), max credits 6;
Instructor: Wei, Li-Na
Description: Student may contact the instructor or department for information.

Phcl 4994 Directed Research
S-N only, 1-3 credit(s), max credits 12, 4 completions allowed;
Instructor: Wei, Li-Na
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;
Instructor: Loh, Horace H
Description: Student may contact the instructor or department for information.

Phcl 5111 Pharmacogenomics
A-F only, 3 credit(s);
Instructor: Campbell, Colin R
Description: Student may contact the instructor or department for information.

Phcl 8014 Small RNA Biology
A-F only, 2 credit(s);
Instructor: Subramanian PhD, Subree
Description: Student may contact the instructor or department for information.

Phcl 8100 Laboratory Research in Pharmacology
S-N only, 4 credit(s), max credits 8;
Instructor: Campbell, Colin R
Description: Student may contact the instructor or department for information.

Phcl 8209 Substance Abuse at the Bedside
S-N only, 1 credit(s);
Instructor: Bart, Gavin Bryce
Description: Student may contact the instructor or department for information.
Phcl 8209 Substance Abuse at the Bedside
S-N only, 1 credit(s);
Instructor: Roy, Sabita
Description: Student may contact the instructor or department for information.

Phcl 8211 Advanced Medical Pharmacology I
A-F only, 5 credit(s);
Instructor: Campbell, Colin R
Description: This course is of hybrid design, with an online independent learning component coupled to an in-class interactive discussion/student participation component. The former segment will require students to view online archived lectures delivered by pharmacology faculty to UMN medical students. The focus of these lectures is on the pharmacology of currently utilized therapeutic agents. Student performance will be evaluated through secure multiple-choice question examinations. The latter section of the course is comprised of an interactive series of in class discussion periods focused around assigned readings from the current literature. Evaluation of student performance of this portion of the course will be based on multiple assessment tools including: class participation, written homework assignments, oral examinations, formal class presentations, and others. Students will receive a single grade that reflects the average performance on the on-line and in-class components of the course, appropriately weighted to reflect the amount of material covered.

Phcl 8320 Readings in Neurobiology
1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Fairbanks, Carolyn Ann
Description: Student may contact the instructor or department for information.

Pharmacy 5-110 Weaver-Densford Hall

Phar 1001 Orientation to Pharmacy
2 credit(s);
Instructor: Cortese PharmD, Angela Marie
Description: You may know that pharmacists are responsible for the dispensation of medications, but did you know that pharmacists actually play a critical role in the healthcare process by ensuring that their patients receive the best overall care? Designed to help you better understand the world of pharmacy, this online pharmacy course will introduce you to the exciting profession and help you gain an understanding of the profound impact of the pharmacist in the patient care process. This course examines what training is necessary for success in the pharmacy field, demonstrates the roles a pharmacist can have in patient care, research and academia, and provides virtual tours of various settings in which pharmacists work. 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. 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, contact phar1001@umn.edu.
Style: 100% Web Based.

Phar 1002 Health Sciences Terminology
2 credit(s);
Instructor: Lichtblau PhD, Leonard
Description: Interested in learning the difference between an antigen and an antibiotic? During this course, you'll not only increase your medical vocabulary by more than 2500 words in a self-paced manner, you will also learn to identify and articulately describe a wide variety of medical conditions and processes. The many means of communicating medically-relevant disease states, procedures, and diagnostics in health care can sometimes seem like another language. This course will help you recognize medical abbreviations, understand surgical procedures and comprehend the meaning of medical terminology by analyzing words at their roots. If you are interested in the healthcare fields or would like to understand more about your own medical care, we encourage you to learn more in this course. This is a completely online self-paced course. Students may complete the course before the end date of the term. Exams utilize online test proctoring. For more information, contact phar1002@umn.edu or 612-624 7976.
Style: 100% Web Based.
Exam Format: multiple choice

Phar 1003 Non-Prescription Medications and Self-Care: Treating Minor Conditions
2 credit(s);
Instructor: Milone PharmD, Anna S
Description: Many patients are interested in having control over their healthcare choices, and as a result, turn to self-medication therapies like over-the-counter drugs and natural, holistic solutions. These solutions, called nonprescription medications, comprise a large market within the healthcare industry. Throughout this course, you'll learn about these medications and other self-care remedies available to treat many different medical conditions. Topics discussed include
allergies, cough and cold, pain, diarrhea and constipation, insomnia, smoking cessation, medication use in children and the elderly, methods of birth control, and the use of dietary supplements. For each condition discussed, you will learn basic causes, signs and symptoms, basic self-care guidelines, and when to see a health care provider. This course will help you gain a better understanding of how nonprescription and self-care products can be used safely and effectively. Additionally, you will explore various drug information resources, and will learn how to find reliable sources of drug information both on the internet and from your pharmacist. This online class is primarily self-paced, with modules made up of lectures, handouts, learning activities, and online class discussions. Students may choose to work ahead in the course. Exams utilize online test proctoring. For more information, contact phar1003@umn.edu or 612-624 7976

Phar 1004 Common Prescription Drugs and Diseases
2 credit(s);
Instructor: Cortese PharmD, Angela Marie
Description: Are you interested in understanding how some of the most common prescription medications work, why they are used, and how they should be used when treating common ailments? Perhaps you would like to recognize the most common causes of specific diseases, identify their symptoms and recognize the diagnostic criteria associated with them. Throughout this course, you will learn why some medications can't be used by certain people, understand how prescription drugs are regulated and examine the correlation between common prescription drugs and diseases. Topics covered in this class range from drug regulation and advertising to depression to hypertension and high cholesterol. Additionally, you will explore various drug information resources, and will learn how to find reliable sources of drug information. This class is primarily self-paced, with modules made up of learning activities, lectures, reflection questions and online class discussion. There will be due-dates for certain aspects at times throughout the semester. Students may choose to work ahead in the course. Exams utilize online test proctoring. For more information, contact phar1004@umn.edu. For more information, contact phar1004@umn.edu or 612-624 7976

Phar 1006 Orientation to Health Literacy and Communication
A-F only, 2 credit(s);
Instructor: Lowry, Ann E.
Description: This course addresses the issues associated with health literacy and uncovers the many dimensions associated with misunderstandings that occur in health-related communication. Students will gain a better understanding of the ways in which health literacy can be improved and the steps individual health care professionals can take to ensure that patients have a better understanding of their health-related issues and treatments. For more information, contact phar1006@umn.edu or 612-624 7976

Phar 3206 Issues in Health Literacy and Communication
A-F only, 3 credit(s); The Twin Cities online Phar 3206 and 5206 are equivalent to the online Duluth Phar 3206 and 5206 and credit will not be granted if credit has been received for more than one instance of the courses. Credit will not be granted if credit has been received for: PHAR 5206;
Instructor: Lowry, Ann E.
Description: This course addresses the issues associated with health literacy and uncovers the many dimensions associated with misunderstandings that occur in health-related communication. Students will gain a better understanding of the ways in which health literacy can be improved and the steps individual health care professionals can take to ensure that patients have a better understanding of their health-related issues and treatments. For more information, contact phar3206@umn.edu or 612-624 7976

Phar 3207 Leadership in Health Care
A-F only, 3 credit(s); The Twin Cities online Phar 3207 and 5207 are equivalent to the online Duluth Phar 3207 and 5207 and credit will not be granted if credit has been received for more than one instance of the courses. Credit will not be granted if credit has been received for: PHAR 5207;
Instructor: Fierke, Kerry K
Description: Positive change in this world requires leadership. And even though the term ?leadership? is freely tossed around by people and organizations, few of us possess a solid understanding of our own unique leadership perspective and potential. This Leadership in Health Care course provides an interactive, student-centered platform to develop students? personal leadership skills, knowledge, and practices, while applying leadership theories to create the groundwork for positive change in health care settings. The course is made up of three (3) modules: The individual perspective, the team perspective, and the organizational perspective. Module 1 explores students? individual leadership perspective. Content will involve: personal experiences, a variety of applied leadership theories, and an understanding of the differences between leadership and management. Module 2 provides leadership skills: effective communication, conflict management, quality improvement, and building teams. Module 3 delves further into the organizational perspective
in health care, including policy and health care outcomes, quality assurance, accountable organizations, and change management in health care organizations.

**Style:** 100% Web Based.

**Grading:** 1. 15% - Journal Reflections 2. 25% - Discussion postings/week 3. 30% - Leadership projects 4. 20% - Team Learning Project 5. 10% - Learning Scenario Activities

Phar 3601 Basic Human Physiology for the Health Professions
A-F only, 3 credit(s);
Instructor: Lichtblau PhD, Leonard

**Description:** This course is entirely online and is designed for pre-health professional students to prepare for more in-depth courses. Normal functions (physiology) of the major human organ systems and diseases (pathophysiology) in those systems. There is a simulated lab component to this course. Basic biology recommended, but not required. For more information, contact phar3601@umn.edu or 612-624 7976

**Style:** 100% Web Based. There are five (5) required exams worth 50 points each which are timed and administered online through Moodle. Students have 75 minutes to complete each exam and must complete each exam during a 2-day window.

**Grading:** 83% quizzes, 17% laboratory evaluation.

**Exam Format:** multiple choice and true/false

Phar 3700 Fundamentals of Pharmacotherapy
A-F only, 3 credit(s);Medical terminologyCredit will not be granted if credit has been received for: PHAR 5700;
Instructor: Cortese PharmD, Angela Marie

**Description:** Pharmacotherapy, the treatment of disease through the administration of medications, is a field particularly interesting to many healthcare workers. This course is designed to introduce you to some of the main drug classes available for the treatment of particular diseases. You will also learn about basic pharmacology, recognize brand and generic drug names and explore their common uses and therapeutic classes. A basic understanding of treatment options available for common disease states will also be developed during this course. Additionally, the course develops basic proficiency in the use of drug information resources. This class is made up of 3 sections, with due dates throughout the semester. Learning modules are made up of study guides, drug information activities, online lectures, and handouts. For more information, contact phar3700@umn.edu. For more information, contact phar3700@umn.edu or 612-624 7976

**Style:** 100% Web Based.

**Exam Format:** Multiple Choice

Phar 3800 Pharmacotherapy for the Health Professions
A-F only, 3 credit(s);Anatomy/physiology, nursing or respiratory careCredit will not be granted if credit has been received for: PHAR 5800;
Instructor: Cortese PharmD, Angela Marie

**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 prerequisites for each health professional program.) There is no textbook for this course. Students use Moodle to: view audio-narrated power-point presentations, download handout materials, complete self-assessments, and take exams. Course information is sent to the U of M email addresses of registered students shortly before, and/or on, the first day of classes each Fall and Spring term. For more information, contact phar3800@umn.edu.

**Style:** 100% Web Based.

**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 Civic Life and Ethics; meets CLE req of Writing Intensive
Instructor: Milone PharmD, Anna S

**Description:** This course prepares students to be informed and responsible participants in debates related to medication use within the U.S. health care system. Medication development, regulation, and distribution in the U.S. are explored along with the business, political, legal, and ethical issues involved. Through weekly reading and writing assignments, students identify and substantiate their own stance on issues, communicate ideas, persuade others, and defend viewpoints. This course fulfills a liberal education writing intensive requirement. For more information, contact phar4200@umn.edu or 612-624 7976.

**Style:** 100% Web Based.

Phar 4294 Directed Study I for Undergraduates
1-5 credit(s), max credits 10;
Instructor: Remmel, Rory P

**Description:** Student may contact the instructor or department for information.
Phar 5200 Drugs and the U.S. Health Care System
A-F only, 3 credit(s); grad or professional student
Credit will not be granted if credit has been received for: PHAR 4200W;
Instructor: Milone PharmD, Anna S
Description: This graduate student course prepares students to be informed and responsible participants in debates related to medication use within the U.S. health care system. Medication development, regulation, and distribution in the U.S. are explored along with the business, political, legal, and ethical issues involved. Through weekly reading and writing assignments, students identify and substantiate their own stance on issues, communicate ideas, persuade others, and defend viewpoints. For more information, contact phar5200@umn.edu or 612-624 7976.
Style: 100% Web Based.

Phar 5201 Applied Health Sciences Terminology
2 credit(s);
Instructor: Lichtblau PhD, Leonard
Description: Interested in learning the difference between an antigen and an antibiotic? During this course, you'll not only increase your medical vocabulary by more than 2500 words in a self-paced manner, you will also learn to identify and articulate a wide variety of medical conditions and processes. The many means of communicating medically-relevant disease states, procedures, and diagnostics in health care can sometimes seem like another language. This course will help you recognize medical abbreviations, understand surgical procedures and comprehend the meaning of medical terminology by analyzing words at their roots. For more information, contact phar5201@umn.edu or 612-624-7976
Style: 100% Web Based.

Phar 5206 Applied Health Literacy and Communication
A-F only, 3 credit(s); The Twin Cities online Phar 3206 and 5206 are equivalent to the online Duluth Phar 3206 and 5206 and credit will not be granted if credit has been received for more than one instance of the courses. Credit will not be granted if credit has been received for: PHAR 3206;
Instructor: Lowry, Ann E.
Description: This course addresses the issues associated with health literacy and uncovers the many dimensions associated with misunderstandings that occur in health-related communication. Students will gain a better understanding of the ways in which health literacy can be improved and the steps individual health care professionals can take to ensure that patients have a better understanding of their health-related issues and treatments. For more information, contact phar5206@umn.edu or 612-624-7976
Style: 100% Web Based.

Phar 5207 Applied Leadership in Health Care
A-F only, 3 credit(s); advanced undergraduates or professional health care students or grad students The Twin Cities online Phar 3207 and 5207 are equivalent to the online Duluth Phar 3207 and 5207 and credit will not be granted if credit has been received for more than one instance of the courses. Credit will not be granted if credit has been received for: PHAR 3207;
Instructor: Fierke, Kerry K
Description: Positive change in this world requires leadership. And even though the term ?leadership? is freely tossed around by people and organizations, few of us possess a solid understanding of our own unique leadership perspective and potential. This Leadership in Health Care course provides an interactive, student-centered platform to develop students? personal leadership skills, knowledge, and practices, while applying leadership theories to create the groundwork for positive change in health care settings. The course is made up of three (3) modules: The individual perspective, the team perspective, and the organizational perspective. Module 1 explores students? individual leadership perspective. Content will involve: personal experiences, a variety of applied leadership theories, and an understanding of the differences between leadership and management. Module 2 provides leadership skills: effective communication, conflict management, quality improvement, and building teams. Module 3 delves further into the organizational perspective in health care, including policy and health care outcomes, quality assurance, accountable organizations, and change management in health care organizations.
Style: 100% Web Based.
Grading: 1. 15% - Journal Reflections 2. 25% - Discussion postings/week 3. 30% - Leadership projects 4. 20% - Team Learning Project 5. 10% - Learning Scenario Activities

Phar 5700 Applied Fundamentals of Pharmacotherapy
A-F only, 3 credit(s); Medical terminology and admission to grad program or instr consent
Credit will not be granted if credit has been received for: PHAR 3700;
Instructor: Cortese PharmD, Angela Marie
Description: 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. For more information, contact phar3700@umn.edu.

**Style:** 100% Web Based.

**Exam Format:** Multiple Choice

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### Philosophy 831 Heller Hall

#### 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
- **Instructor:** Owens, Joseph I
- **Description:** Student may contact the instructor or department for information.

#### 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
- **Instructor:** Wilson, Brian T
- **Description:** Student may contact the instructor or department for information.

#### 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 Arts/Humanities; meets CLE req of Writing Intensive
- **Instructor:** Stoner, Ian M
- **Description:** Student may contact the instructor or department for information.

#### 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 Arts/Humanities; meets CLE req of Writing Intensive
- **Instructor:** Panagopoulos, Anastasia
- **Description:** This is a fully online course offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policy, fee, and financial aid restrictions. Many of the questions that you hear about on TV and in the popular press today are actually philosophical problems: Should abortion be permitted? Do animals have rights? Can computers think? Philosophy, however, isn't only a set of questions. It also includes its own methodology, one that uses logical arguments in an attempt to answer questions. In this course, you will read articles about ethics, knowledge, religious belief, and the human condition. These articles will speak to the issues that are most central to your being—your beliefs and ideologies, your sense of yourself, and your relations with others and with the world. You will be asked to do philosophy, not merely to report on it, and in doing so, you will need to consider alternate viewpoints, make arguments, be critical, and spend some time thinking about what you read.
- **Style:** Online
- **Grading:** See attached syllabus

#### Phil 1003W Introduction to Ethics

- 4 credit(s); Credit will not be granted if credit has been received for: PHIL 1003V; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
- **Instructor:** Mason, Michelle N
- **Description:** "What kind of life should I live?" "What kind of person do I want to be?" Such questions confront us all and do so perhaps most urgently during the college years, when we typically choose or prepare for the life we wish to live. These questions also are of concern to the moral philosopher. Moral philosophers engaged in the systematic study of the ethical standards that should govern our lives and their sources of justification are engaged in the project of 'normative ethics'. Sometimes we might find ourselves wondering about more abstract questions, such as whether moral judgments are objective, whether moral principles are relative to our culture, where values fit into the scientific world of facts, etc. These are among the questions that are the subject of 'meta-ethics'. In this course we will join some prominent moral philosophers in reflecting on both normative and meta-ethical questions. We will examine the most influential normative ethical theories: Utilitarianism, Kantianism and neo-Aristotelianism. We also will consider philosophy's contribution to thinking about some contemporary moral controversies (e.g., is affirmative action fair?). The goals of the course are to provide students with no previous background in philosophy with an introduction to philosophical ethics and to equip them to critically read, assess, and write philosophical prose.
- **Style:** 75% Lecture, 25% Discussion.
- **Grading:** 30% final exam, 60% reports/papers, 10% quizzes.

#### Phil 1003W Introduction to Ethics
Phil 1004W Introduction to Political Philosophy
  4 credit(s); Credit will not be granted if credit has been received for: PHIL 1004V; Meets CLE req of Arts/Humanities; meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
  Instructor: Doyle, Tom
  Description: Student may contact the instructor or department for information.

Phil 1006W Philosophy and Cultural Diversity
  4 credit(s); Credit will not be granted if credit has been received for: PHIL 1002W; Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive
  Instructor: Scheman, Naomi
  Description: ‘Philosophy’ refers both to a particular discipline and more broadly to discussions about what people are fundamentally like; how thinking, feeling, sensing, desiring, and acting are related; how we ought to behave toward other humans and other living and non-living things; what the sources of authority and respect are and what claims they have on us; and the scope and limits of our knowledge. In this sense every culture and all individuals philosophize. An aim of the course is to broaden the disciplined conversation by bringing into it voices that have been "disciplined out"-some of them in course readings and some of them our own. A guiding idea of the course is that canonical philosophers have something to contribute to the conversations that we--the diverse people who are here and now, in the U.S. in the 21st century--need to be having with each other about issues that concern us all. These issues include questions about authority, obedience and disobedience, anger, the nature and sources of rights, as well as about how we are connected to each other and how we decide what really matters and why. The course has five sections, each of which pairs a selection of 20th C U.S. texts with one canonical text. After each section you will have a choice of topics on which to write a one-page essay.
  Style: 65% Lecture, 35% Discussion. not including discussion sections
  Grading: 100% reports/papers. extra credit for participation in class or on the web
  Exam Format: no exams

Phil 1910W Topics: Freshman Seminar: Amadeus: In Search of Mozart
  A-F only, 3 credit(s); Meets CLE req of Writing Intensive
  Instructor: Kac, Michael B
  Description: Despite what you may have heard, classical music isn’t just a dry, arid landscape of interest only to culture snobs. The great masterpieces are supreme products of the human imagination touching on all aspects of the human condition -- comic, tragic, sacred, profane. This is music that has moved generations of listeners to laughter and to tears, while at the same time inviting them to contemplate and reflect on its inner order and architectural grandeur. This seminar will present some of the great works of the classical tradition along with an explanation of what makes them so remarkable. No prior knowledge about music is required -- just bring an open mind.

Phil 3005W General History of Western Philosophy: Modern Period
  4 credit(s); Credit will not be granted if credit has been received for: PHIL 3005V; Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive
  Instructor: Hanks, Peter William
  Description: The modern period in philosophy, stretching roughly from the late 16th century through the early 18th century, was inaugurated by the scientific revolution of Galileo and Newton, in which the ancient world-view of Aristotle and the medieval philosophers was overthrown by a new, mechanistic conception of the world. Some of the greatest philosophers of all time lived and wrote during this period, including Rene Descartes, Baruch Spinoza, Gottfried Leibniz, John Locke, George Berkeley, David Hume, and Immanuel Kant. In this course we will study the central texts of these philosophers. Our main goal will be to understand their views about the nature of reality (metaphysics) and the extent of our knowledge of reality (epistemology). One of the great benefits of studying these philosophers is that it leads to a deep and historically informed understanding of our own contemporary conception of ourselves and our position in the world.

Phil 3301 Environmental Ethics
  4 credit(s); Meets CLE req of Environment
  Instructor: Warren, Karen 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 restrictions. Environmental Ethics is a field of
philosophy that explores both a variety of real-life contemporary environmental issues and theoretical frameworks for understanding and evaluating them. The “applied” issues include: animal rights; ethical vegetarianism; the morality of zoos; wilderness preservation; climate change; population and consumption; air and water pollution; ecosabotage; interconnections among gender, race/ethnicity, class and environmental harms or illnesses; environmental racism; “green economics;” the greening of spirituality. The “theoretical” issues include: animal welfarism; Leopold’s land ethics; deep ecology; social ecology; ecofeminist philosophy and ethics; models of social and environmental justice; environmental virtue ethics; environmental pragmatism; political ecology; continental environmental philosophy; stewardship ethics; non-Western religious environmental ethics. The interplay between the applied and the theoretical aspects of environmental ethics is a key structural and substantive feature of this course. In addition, this course will teach invaluable critical thinking and writing skills for both doing philosophy and for each student to develop and formulate her or his own environmental ethic.

Style: Online
Grading: See attached syllabus

Phil 3302W Moral Problems of Contemporary Society
4 credit(s); Credit will not be granted if credit has been received for: PHIL 3322W; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
Instructor: Stoner, Ian M
Description: Student may contact the instructor or department for information.

Phil 3305 Medical Ethics
4 credit(s);
Instructor: Kringle, Kirsten
Description: Student may contact the instructor or department for information.

Phil 3311W Introduction to Ethical Theory
4 credit(s); Meets CLE req of Writing Intensive
Instructor: Tiberius, Valerie
Description: Student may contact the instructor or department for information.

Phil 3502W Introduction to Aesthetics
3 credit(s), max credits 4, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Estep, Jan
Description: Introduction to Aesthetics is a discussion-based course designed around key texts written about art by philosophers, contemporary critics, and artists. It is a broad introduction to issues in the philosophy of art. Particular attention will be paid to the problem of realism and mimesis, to intention, interpretation and meaning, to perception and embodied cognition, to metaphor, to the photographic image, and to the social and conceptual contexts in which artists work. Presentation and analysis of contemporary art as case examples is an integral component to the course. As PHIL3502W, this course is writing intensive and students will draft and rewrite a main paper topic. In Spring 2014 this class is cross-listed with ARTS3490; students taking it for ARTS credits will create an art project (any medium) in lieu of the main paper assignment. Select PHIL3502W or ARTS3490, depending on how you want to treat the main project assignment.

Phil 3601W Scientific Thought
4 credit(s); Meets CLE req of Writing Intensive
Instructor: Uffink, Jos
Description: Student may contact the instructor or department for information.

Phil 3602 Science, Technology, and Society
A-F only, 3 credit(s);
Instructor: Love, Alan C
Description: The word ‘evolution’ is enough to transform a civil discussion into an acrimonious debate. Inevitably, the name of Darwin and the label 'Darwinism' are utilized alternatively as badges of honor or pejorative invectives. The same holds for design and the label 'Intelligent Design'. The purpose of this course is to wade into the fundamental issues surrounding 'Darwin and design' that seem to generate so much more heat than light and make sense of the relevant arguments. We begin by looking at design arguments from select junctures in the history of philosophy. Then we focus on the 19th century context from which Darwin's theory of evolution by natural selection emerged. This historical journey will include a brief stop in antiquity, discussions in geology and philosophy from the early 1800s that surrounded the key question of 'organic origins', a study of Darwin's own writings, and a survey of some reactions (scientific, philosophical, and religious) to Darwin's evolutionary theory. Having grounded ourselves in the basic structure of design arguments and the 19th century context of Darwin's discovery, we will fast forward to the present. First, a brief sketch of some developments in evolutionary biology over the past 150 years will help us better comprehend the evolving nature of 'Darwinism'. The remainder of the course will investigate various arguments, criticisms, and responses surrounding the so-called 'creation-
evolution’ debate, especially as they pertain to the concept of design and ‘Intelligent Design’. Our strategy will be to look at this contemporary controversy in the light of historical issues with a number of philosophical questions in mind. (1) What is a scientific theory? What is ‘evolutionary theory’? What is Darwinism? (2) How is evidence related to theories in biological science? What is the nature of scientific explanation? How are scientific controversies resolved? (3) What is the design argument? (4) What is best way to characterize the relation between science and religion? This course is intended for a diversity of majors in different colleges, including anthropology, biology, education, geography, history, philosophy, psychology, and sociology.

Style: 60% Lecture, 40% Discussion.
Grading: 25% reports/papers, 44% written homework, 2% attendance, 27% reflection paper, 2% class participation.

Phil 3607 Philosophy of Psychology
4 credit(s);
Instructor: Owens, Joseph I
Description: Mental phenomena present the philosopher with a number of deep but inescapable challenges. We tend to suppose that we know what it is to have a mind, to have beliefs, desires, etc., All of this is surely amazing; indeed it verges on the outrageous. We admit to not knowing the makeup of the simplest structures, to not knowing how to explain the behavior of the simplest organisms—we leave such issues to scientific investigators—and at the same time we think we know how to explain the behavior of this most complex of systems; we know how to do it, and we know what we are talking about when we explain behavior by citing the relevant beliefs, desires, etc. Strange indeed. We start our investigation with a brief look at Descartes, who is usually supposed to have expressed our shared intuitive conception of mind. For our purposes, Descartes’ vision is best viewed as posing the central problems rather than answering them. The body of the course is then taken up with investigating current and recent theories of mind and psychology. Special attention will be given to cognitive psychology and artificial intelligence approaches—contemporary theories that attempt to understand intelligent systems as programmed systems.
Style: 75% Lecture, 25% Discussion.
Grading: 100% reports/papers.

Phil 3993 Directed Studies
1-3 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Students may contact the instructor or department for information.

Phil 4010 Ancient Philosophers
3 credit(s), max credits 6;
Instructor: Peterson, Sandra Lynne
Description: Philosophy 4010 Spring 2014 This course will be a study of Plato’s dialogues, Lysis, Symposium, and Phaedrus. Socrates in the Lysis engages in a question-answer conversation with some adolescents who are eager to meet the challenge of answering Socrates’ questions without contradicting themselves: Socrates’ questions are about what a friend is. The conversation produces a number of intriguing short arguments. Socrates in the Symposium competes in an after-dinner speech competition. The dinner guests give competing speeches in praise of erotic love. Socrates’ contribution is one of the two wildest speeches. Socrates in the Phaedrus converses with a young man about erotic love. There Socrates also gives a wild speech about eros. His speech includes several suggestions about what a philosopher is. We will also consider Plato’s depiction of Socrates in the Apology. The Apology is Plato’s representation of Socrates’ defense speech at the trial at which Socrates was given the death penalty. A background question for the course will be the question: is the description that Socrates is as depicted by Plato—gives in the Apology of how he spent his life an accurate description of Socrates’ conversational behavior in the Lysis, Symposium, and Phaedrus?
Style: 10% Lecture, 90% Discussion.
Grading: 10% quizzes, 25% attendance, 65% reflection paper.

Phil 4330 Contemporary Moral Theories
3 credit(s);
Instructor: Mason, Michelle N
Description: What is an obligation? In virtue of what are we morally obligated to others and how so? Why and when is blame a warranted response to wrongdoing, understood as a violation of our obligations to others? Why not forego blame and other ?negative? reactive attitudes altogether? This course will take up such questions in the context of studying recent work by two of our most prominent living moral philosophers: T.M. Scanlon’s Moral Dimensions: Permissibility, Meaning, and Blame and Stephen Darwall’s The Second Person Standpoint: Morality, Respect, and Accountability. Time permitting, we also will read recent essays of Darwall that bring our questions to bear in the context of law (e.g., tort law). The course is intended to provide upper-level undergraduates and philosophy graduate students with an opportunity to study some prominent work in contemporary ethical theory. It is not an appropriate first course in philosophy (PH1003 is a recommended prerequisite).

Phil 4993 Directed Studies
Phil 4995 Senior Project (Directed Studies)
A-F only, 1 credit(s);
Instructor: Mason, Michelle N
Description: Student may contact the instructor or department for information.

Phil 5211 Modal Logic
4 credit(s);
Instructor: Cook, Roy Thomas
Description: Student may contact the instructor or department for information.

Phil 5222 Philosophy of Mathematics
3 credit(s);
Instructor: Hellman, Geoffrey
Description: Fundamental issues and leading traditions in philosophy of mathematics will be presented. What, if anything, is mathematics about? What is mathematical truth? How are axioms justified, especially involving the infinite? Approaches and related issues to be considered include: classical (platonist) logicism of Frege and Russell, the structuralist perspective of Dedekind, conventionalist logicism of Carnap, elements of intuitionism, Hilbert's program, the impact of Gödel's incompleteness theorems, and a glimpse at some leading contemporary developments, especially concerning structuralism.
Prerequisites: A course in symbolic logic (through completeness of first-order logic), or a course in college-level mathematics (e.g., calculus, real analysis, algebra, intro to foundations, etc.)
Style: 75% Lecture, 25% Discussion.
Grading: 40% mid exam, 40% final exam, 20% class participation.
Exam Format: take-home questions, essay type

Phil 5415 Philosophy of Law
3 credit(s);
Instructor: Bix, Brian H
Description: The course will offer an overview of a wide variety of topics in legal philosophy, from issues in analytical philosophy (e.g., regarding the nature of law, the requirements of justice, and whether there is a moral obligation to obey the law) to modern critical schools (e.g., law and economics, critical race theory, legal realism, and feminist legal theory). The course is aimed at graduate philosophy students and law students, though other graduate students and undergraduates willing and able to work at a graduate-student level are welcome. The readings come mostly from articles available on-line, supplemented by one short overview book. Course grades are based primarily on one term paper and one (closed book) final essay exam.
Style: 70% Lecture, 30% Discussion.
Grading: 45% final exam, 45% reports/papers, 10% class participation.
Exam Format: essay (closed book)

Phil 5760 Selected Topics in Philosophy: Understanding Kant
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Rothe, Matthias
Description: The work of Immanuel Kant (1724-1804) is widely considered as marking a new era in Western thought. Kant himself considered his critical philosophy a "Copernican revolution": it reversed entirely and counter-intuitively the relation of subject and world. According to Kant, we recognize the world, and we experience objects as beautiful or certain actions as moral not because of their objective qualities, but because of our subjective capacities. In other words, the world conforms to us, not the other way round. Yet should this prove to be true, the consequences would be severe. More than a few of Kant's contemporaries were plunged into deep crisis through an encounter with his critical philosophy. This course will provide an introduction to Kant's philosophy. Through lectures, close readings and group work we will reconstruct themes, motifs and arguments of Kant's thinking, drawing on the three major critical works as well as on earlier, less known philosophical essays. You will eventually be able not only to comprehend (yet hopefully not re-live) the sense of crisis that came along with Kant's philosophy, but also understand its lasting impact.
Style: 60% Lecture, 20% Discussion, 20% Small Group Activities.
Grading: 50% reports/papers, 50% class participation.

Phil 5993 Directed Studies
1-3 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.
Phil 8010 Workshop in History of Philosophy
1 credit(s), max credits 4, 4 completions allowed;
Instructor: Peterson, Sandra Lynne
Description: Student may contact the instructor or department for information.

Phil 8085 Seminar: History of Philosophy—Modern Philosophers
3 credit(s);
Instructor: Bix, Brian H
Description: Student may contact the instructor or department for information.

Phil 8210 Seminar: Logical Theory
3 credit(s), max credits 6;
Instructor: Cook, Roy Thomas
Description: Student may contact the instructor or department for information.

Phil 8310 Seminar: Moral Philosophy
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Holtman, Sarah Williams
Description: Student may contact the instructor or department for information.

Physical Education 220 Cooke Hall

PE 1007 Beginning Swimming
OPT No Aud, 1 credit(s);
Instructor: McKee, Linda Ann
Description: Student may contact the instructor or department for information.

PE 1007 Beginning Swimming
OPT No Aud, 1 credit(s);
Instructor: Novotny, Jessica Lynn
Description: Student may contact the instructor or department for information.

PE 1007 Beginning Swimming
OPT No Aud, 1 credit(s);
Instructor: Brandes, Megan Ann
Description: Student may contact the instructor or department for information.

PE 1012 Beginning Running
OPT No Aud, 1 credit(s);
Instructor: Hippen, Lois Margarete
Description: Student may contact the instructor or department for information.

PE 1012 Beginning Running
OPT No Aud, 1 credit(s);
Instructor: Hoffman, Brandi L
Description: Student may contact the instructor or department for information.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Benoit, Luke
Description: Student may contact the instructor or department for information.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Brandes, Megan Ann
Description: Student may contact the instructor or department for information.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Borcherding, Bria Jordan
Description: Student may contact the instructor or department for information.

PE 1014 Conditioning
OPT No Aud, 1 credit(s);
Instructor: Schulz, Skylar R
Description: Student may contact the instructor or department for information.

PE 1015 Weight Training
OPT No Aud, 1 credit(s);
Instructor: Betker, Morgan R
Description: Student may contact the instructor or department for information.

PE 1015 Weight Training
OPT No Aud, 1 credit(s);
Instructor: Billing, Lauren Elizabeth
Description: Student may contact the instructor or department for information.

PE 1015 Weight Training
OPT No Aud, 1 credit(s);
Instructor: Stephenson, Greg
Description: Student may contact the instructor or department for information.

PE 1016 Posture and Individual Exercise
OPT No Aud, 1 credit(s);
Instructor: Lemler, Lisa Lynn
Description: Student may contact the instructor or department for information.

PE 1016 Posture and Individual Exercise
OPT No Aud, 1 credit(s);
Instructor: Borcherding, Bria Jordan
Description: Student may contact the instructor or department for information.

PE 1029 Handball
OPT No Aud, 1 credit(s);
Instructor: Hiber, Matthew Frank
Description: Student may contact the instructor or department for information.

PE 1031 Sabre Fencing
OPT No Aud, 1 credit(s);
Instructor: Sobalvarro, J Roberto
Description: Student may contact the instructor or department for information.

PE 1032 Badminton
OPT No Aud, 1 credit(s);
Instructor: Yeo, Dongwook
Description: Student may contact the instructor or department for information.

PE 1033 Foil Fencing
OPT No Aud, 1 credit(s);
Instructor: Sobalvarro, J Roberto
Description: Student may contact the instructor or department for information.

PE 1034 Judo
OPT No Aud, 1 credit(s);
Instructor: Crone, Thomas William
Description: Student may contact the instructor or department for information.

PE 1035 Karate
OPT No Aud, 1 credit(s);
Instructor: Fusaro, Robert L
Description: Student may contact the instructor or department for information.

PE 1036 Racquetball
OPT No Aud, 1 credit(s);
Instructor: Hoffman, Mitchell Lee
Description: Student may contact the instructor or department for information.

PE 1036 Racquetball
OPT No Aud, 1 credit(s);
Instructor: Phillips, Brian William
Description: Student may contact the instructor or department for information.

PE 1037 Squash Racquets
OPT No Aud, 1 credit(s);
Instructor: Stever, John Ball
Description: Student may contact the instructor or department for information.

PE 1038 Beginning Tennis
OPT No Aud, 1 credit(s);
Instructor: Sanny, John H
Description: Student may contact the instructor or department for information.

PE 1038 Beginning Tennis
OPT No Aud, 1 credit(s);
Instructor: Haertl, Daniel Thomas
Description: Student may contact the instructor or department for information.

PE 1044 Self-Defense
OPT No Aud, 1 credit(s);
Instructor: Bendickson, Anita Olivia
Description: Student may contact the instructor or department for information.

PE 1044 Self-Defense
OPT No Aud, 1 credit(s);
Instructor: Brandl, Mary Kathryn
Description: Student may contact the instructor or department for information.

PE 1045 Rock Climbing
OPT No Aud, 1 credit(s);
Instructor: Stewart, Jennifer L
Description: Student may contact the instructor or department for information.

PE 1045 Rock Climbing
OPT No Aud, 1 credit(s);
Instructor: Karban, Bryan Daniel
Description: Student may contact the instructor or department for information.

PE 1046 Tae Kwon Do
OPT No Aud, 1 credit(s);
Instructor: Kim, Aaron Hyun Sik
Description: Student may contact the instructor or department for information.

PE 1048 Bowling
OPT No Aud, 1 credit(s);
Instructor: Schmid, Michael F
Description: Student may contact the instructor or department for information.
PE 1053 Ice Skating
  OPT No Aud, 1 credit(s);
  Instructor: Anderson, Kristina
  Description: Student may contact the instructor or department for information.

PE 1055 Golf
  OPT No Aud, 1 credit(s);
  Instructor: Schulze, Gregory Alan
  Description: Student may contact the instructor or department for information.

PE 1055 Golf
  OPT No Aud, 1 credit(s);
  Instructor: Benoit, Luke
  Description: Student may contact the instructor or department for information.

PE 1057 Beginning Skiing
  OPT No Aud, 1 credit(s);
  Instructor: Peterson, Glen James
  Description: Student may contact the instructor or department for information.

PE 1058 Snowboarding
  OPT No Aud, 1 credit(s);
  Instructor: Peterson, Glen James
  Description: Student may contact the instructor or department for information.

PE 1065 Beginning Tumbling and Gymnastics
  OPT No Aud, 1 credit(s);
  Instructor: Campbell, Julia Faith
  Description: Student may contact the instructor or department for information.

PE 1067 Basketball
  OPT No Aud, 1 credit(s);
  Instructor: Hopkins, Christopher William
  Description: Student may contact the instructor or department for information.

PE 1071 Beginning Cricket
  OPT No Aud, 1 credit(s);
  Instructor: Peterson, Charles E
  Description: Student may contact the instructor or department for information.

PE 1072 Soccer
  OPT No Aud, 1 credit(s);
  Instructor: Curtis, John D
  Description: Student may contact the instructor or department for information.

PE 1072 Soccer
  OPT No Aud, 1 credit(s);
  Instructor: Adamcsek, Viktor Istvan
  Description: Student may contact the instructor or department for information.

PE 1072 Soccer
  OPT No Aud, 1 credit(s);
  Instructor: Schulz, Skylar R
  Description: Student may contact the instructor or department for information.

PE 1074 Beginning Volleyball
  OPT No Aud, 1 credit(s);
  Instructor: Shingles, Kori Elizabeth
  Description: Student may contact the instructor or department for information.
PE 1074 Beginning Volleyball  
OPT No Aud, 1 credit(s);  
Instructor: Hoffmann, Tiffany  
Description: Student may contact the instructor or department for information.

PE 1074 Beginning Volleyball  
OPT No Aud, 1 credit(s);  
Instructor: Billing, Lauren Elizabeth  
Description: Student may contact the instructor or department for information.

PE 1076 Flag Football  
OPT No Aud, 1 credit(s);  
Instructor: Medina, Jaime Gerardo  
Description: Student may contact the instructor or department for information.

PE 1076 Flag Football  
OPT No Aud, 1 credit(s);  
Instructor: Townzen, Ryan Karim  
Description: Student may contact the instructor or department for information.

PE 1078 Ultimate Disc  
OPT No Aud, 1 credit(s);  
Instructor: Williams, Gregory Donald  
Description: Student may contact the instructor or department for information.

PE 1079 Rugby (Non-contact)  
OPT No Aud, 1 credit(s);  
Instructor: Staff  
Description: Student may contact the instructor or department for information.

PE 1135 Intermediate Karate  
OPT No Aud, 1 credit(s);  
Instructor: Fusaro, Robert L  
Description: Student may contact the instructor or department for information.

PE 1146 Intermediate Tae Kwan Do  
OPT No Aud, 1 credit(s);  
Instructor: Kim, Aaron Hyun Sik  
Description: Student may contact the instructor or department for information.

PE 1174 Intermediate Volleyball  
OPT No Aud, 1 credit(s);  
Instructor: Shingles, Kori Elizabeth  
Description: Student may contact the instructor or department for information.

PE 1205 Scuba and Skin Diving  
OPT No Aud, 1 credit(s);  
Instructor: Karl, Robert J  
Description: Student may contact the instructor or department for information.

PE 1262 Marathon Training  
OPT No Aud, 3 credit(s);  
Instructor: Ingraham PhD, Stacy Jean  
Description: Student may contact the instructor or department for information.

Physical Therapy 382 Children’s Rehabilitation Center

PT 1002 Orientation to Physical Therapy  
S-N only, 1 credit(s);
Instructor: Koehler, Linda Ann
Description: Student may contact the instructor or department for information.

**PT 6214 Clerkship II**
- A-F only, 2 credit(s);
- Instructor: Lojovich, Jeanne Marie
- Description: Student may contact the instructor or department for information.

**PT 6216 Clerkship IV**
- A-F only, 1 credit(s);
- Instructor: Lojovich, Jeanne Marie
- Description: Student may contact the instructor or department for information.

**PT 6220 Clinic Volunteer**
- No Grade, 1 credit(s), max credits 6, 6 completions allowed;
- Instructor: Anderson, Kathleen
- Description: Student may contact the instructor or department for information.

**PT 6221 Therapeutic Procedures**
- A-F only, 4 credit(s);
- 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;
- 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);
- Instructor: Anderson, Kathleen
- Description: Student may contact the instructor or department for information.

**PT 6287 Neurorehabilitation**
- A-F only, 8 credit(s);
- Instructor: Leuty, Lynnette K
- Description: Student may contact the instructor or department for information.

**PT 6297 Clinical Internship III**
- S-N only, 10 credit(s);
- 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);
- 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;
- 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);
- Instructor: Cole, Pamela S
- Description: Student may contact the instructor or department for information.

**PT 7005 Topics in Pediatric Physical Therapy**
PT 7011 Topics in Geriatric Rehabilitation II  
S-N only, 2 credit(s);  
Instructor: Olson-Kellogg, Becky Jo  
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar II  
A-F only, 1 credit(s);  
Instructor: Koehler, Linda Ann  
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar II  
A-F only, 1 credit(s);  
Instructor: Thompson PhD, LaDora V  
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar II  
A-F only, 1 credit(s);  
Instructor: Ludewig, Paula M  
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar II  
A-F only, 1 credit(s);  
Instructor: Lowe, Dawn Annette  
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar II  
A-F only, 1 credit(s);  
Instructor: Glasoe, Ward M  
Description: Student may contact the instructor or department for information.

PT 8132 Research Seminar II  
A-F only, 1 credit(s);  
Instructor: Gillick, Bernadette Therese  
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;  
Instructor: Carey, James Robert  
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;  
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;  
Instructor: Lojovich, Jeanne Marie  
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;
Instructor: Koehler, Linda Ann
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;
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;
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;
Instructor: Gillick, Bernadette Therese
Description: Student may contact the instructor or department for information.

**Physics 148 Tate Laboratory of Physics**

**Phys 1001W Energy and the Environment**
4 credit(s); Meets CLE req of Environment; meets CLE req of Physical Sciences; 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);
Instructor: Cassola, Robert L
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. 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: See attached syllabus
Exam Format: Supervised, in-person exams

**Phys 1101W Introductory College Physics I**
4 credit(s); Meets CLE req of Physical Sciences; 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); Meets CLE req of Physical Sciences; meets CLE req of Writing Intensive
Instructor: STAFF
Description: This is the second term of a course sequence designed to prepare you for work in your field by: having solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. To achieve these goals, this course requires an in-depth understanding of the material. This course will emphasize the application of the principles and skills learned in Physics 1101W to more complex, abstract, and realistic situations involving topics from fluids, thermal physics, waves, electricity, magnetism, optics, and atomic physics. A laboratory requires you to apply both the concepts and problem solving skills taught in this course to the real world. It will also emphasize technical communications skills. A discussion section gives you the opportunity to discuss your conceptual understanding and your problem solving skills by practicing working problems with other students. The laboratory and discussions sections emphasize collaborative problem solving as a powerful learning tool and as a preparation for work in your profession.
Exam Format: 

Phys 1108 Introductory Physics Online II
4 credit(s);
Instructor: 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: Online with handwritten exams
Grading: See attached syllabus
Exam Format: Supervised, in-person (not online) exams

Phys 1201W Introductory Physics for Biology and Pre-medicine I
5 credit(s); [High school or college calculus], trigonometry, algebra Credit will not be granted if credit has been received for: PHYS 1301W; Meets CLE req of Physical Sciences; meets CLE req of Writing Intensive
Instructor: STAFF
Description: This is the first semester of a 2 semester course 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 1271, 1371 or 1241 taken previously or simultaneously is required. Students should have a working knowledge of derivatives as well as algebra and the geometry of right triangles. The course emphasizes an understanding of the fundamental principles of physics and their use in solving realistic quantitative problems of the type found in biological applications. The first semester develops the concepts of forces and conservation principles to determine the behavior of a system. The importance of energy transfer between objects in a system and between systems will be emphasized, especially within the framework of thermodynamics. 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 1202W Introductory Physics for Biology and Pre-medicine II
5 credit(s); 1201W Credit will not be granted if credit has been received for: PHYS 1302W; Meets CLE req of Physical Sciences; meets CLE req of Writing Intensive
Instructor: STAFF
Description: This is the second semester of a two-semester course in introductory physics designed primarily for premed and biological science students. This is not a survey course of all physics but requires an in-depth understanding of fundamental principles and their application. Students should have a working knowledge of the mathematics skills used in Phys1201W. This semester will cover electricity and magnetism, light and optics, quantum description of atoms and nuclei,
and relativity. 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 1251 Physics I**

A-F only, 4 credit(s); Meets CLE req of Physical Sciences; meets CLE req of Technology and Society

Instructor: Aryal, Bijaya

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

**Phys 1301W Introductory Physics for Science and Engineering I**

4 credit(s); 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 1201W; Meets CLE req of Physical Sciences; meets CLE req of Writing Intensive

Instructor: STAFF

Description: This is the first of a three semester introductory course in physics for students in sciences and engineering. 1301W/1302W, 2303 or 2503 is designed to prepare you for work in your field by: building a solid conceptual understanding of fundamental principles of physics, and their applications; applying those principles to new situations, using logical reasoning and quantitative problem-solving skills; learning to communicate technical information effectively. To achieve these goals, this course requires you to understand the material in depth. 1301W will emphasize the study of mechanical systems, beginning with the description of motion of interacting objects, the forces that they exert on each other and the quantities that are conserved in those interactions. A laboratory is included to allow you to apply physical principles to the real world in a carefully controlled environment, and will also emphasize technical communications skills. A discussion section will give you the opportunity to clarify your conceptual understanding, and practice your problem-solving skills, by practicing working problems with other students. This is a calculus-based course, and students will be expected to use the basic concepts of differential and integral calculus, as well as algebra and trigonometry.

**Phys 1302W Introductory Physics for Science and Engineering II**

4 credit(s); 1301W, Concurrent registration is required (or allowed) in Math 1272 or Math 1372 or Math 1572

Credit will not be granted if credit has been received for: PHYS 1202W; Meets CLE req of Physical Sciences; meets CLE req of Writing Intensive

Instructor: STAFF

Description: This is the 2nd of a 3 semester intro course in physics for students in science and engineering. 1302W emphasizes the application of the physical principles learned in 1301W to electrical and magnetic interactions. The course is designed to prepare you for work in your field by: having solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. To achieve these goals, this course requires you to understand the material in depth. Emphasis will be given to the application of physics principles to real-life situations, and will use problems designed to simulate such situations. This course assumes a good working knowledge of the concepts and skills in 1301W. Because of the nature of this material, this course will be more abstract and mathematical than 1301W. A lab is included to allow you to apply both the concepts and problem solving skills to the real world. It will also emphasize technical communications skills. A discussion section will give you the opportunity to discuss your conceptual understanding and practice your problem solving skills with other students.

**Phys 1402V Honors Physics II**

A-F only, 4 credit(s); 1401V, honors student or permission of University Honors Program

Credit will not be granted if credit has been received for: PHYS 1202W; Meets CLE req of Physical Sciences; 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 University Honors Program. It is designed to prepare you for work in your field by: having a solid conceptual understanding of the way the real world works based on a few fundamental principles of physics; being able to solve realistic problems using logical reasoning and quantitative problem solving skills; applying those physics concepts and problem solving skills to new situations; and learning to effectively communicate technical information. This course requires you to understand the material in depth; it will go at a faster pace than Physics 1302W and at a higher mathematical level. The emphasis will always be on the application of physics principles to interesting situations, and problems will be designed to simulate such situations. 1402V will emphasize the application of the principles learned in 1401V to the electromagnetic interaction. Fundamental ideas will be applied to complex systems using abstract concepts such as vector fields. Students should have the ability and desire to use mathematics not yet introduced in math class. A laboratory is included to allow you to apply physical principles to the real world in a carefully controlled environment, and will also emphasize technical
communications skills. A discussion section will give you the opportunity to clarify your conceptual understanding, and practice your problem-solving skills, by practicing working problems with other students.

**Phys 1502V Honors Introduction to Electricity and Magnetism**
- A-F only, 4 credit(s); 1501V, honors
- Credit will not be granted if credit has been received for: PHYS 1202W
- Meets CLE req of Physical Sciences; meets CLE req of Writing Intensive
- Instructor: Crowell, Paul A
- Description: Student may contact the instructor or department for information.

**Phys 1905 Freshman Seminar**
- 1-3 credit(s), max credits 6;
- Instructor: STAFF
- Description: This seminar will develop an understanding of how many devices in our high technology society work including engines, motors, thermometers, and cameras. There will also be a series of simple technological devices the students will construct during the semester to explore the engineering process of taking physics into technology. These engineering projects may include building an electromagnet, electric motor, a mouse trap powered toy car, an egg saver (when dropped from a considerable height), and a match head rocket. In addition to the construction projects, at the end of the semester each student will make a short presentation on something they have taken apart to explore and understand.

**Phys 1910W Freshman Seminar: Writing Intensive**
- 1-3 credit(s), max credits 3, 1 completion allowed; Meets CLE req of Writing Intensive
- Instructor: STAFF
- Description: What is time? The precise meaning and use of the concept of time has evoked serious study and debate among the most able of human thinkers for more than two thousand years. We will review several of the current perspectives as well as some of this history of the concept of time from the points of view of philosophers, biologists, psychologists and physicists.

**Phys 2251 Physics II**
- A-F only, 4 credit(s); Meets CLE req of Physical Sciences
- Instructor: Aryal, Bijaya
- Description: Student may contact the instructor or department for information.

**Phys 2303 Physics III: Physics of Matter**
- 4 credit(s); 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: STAFF
- 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: 85% Lecture, 15% Discussion.
- Grading: 40% mid exam, 40% final exam, 20% problem solving.
- Exam Format: A combination of quantitative problem solving and qualitative.

**Phys 2311 Modern Physics**
- 4 credit(s);
- Instructor: Cassola, Robert L
- Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. 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: See attached syllabus
- Exam Format: Supervised, in-person exams

**Phys 2601 Quantum Physics**
4 credit(s);
Instructor: STAFF
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);
Instructor: STAFF
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 3022 Introduction to Cosmology
3 credit(s);
Instructor: STAFF

Phys 3071W Laboratory-Based Physics for Teachers
4 credit(s); Meets CLE req of Physical Sciences; meets CLE req of Writing Intensive
Instructor: STAFF
Description: This course is intended to provide an experience based introduction to a selection of fundamental physics concepts especially chosen to be useful for potential elementary school teachers. These fundamental concepts include the interaction between objects and the description of that interaction by energy, forces, and fields. These ideas will be applied to electricity and magnetism as well as optics and heat. The course is activity-based and collaboration-oriented with four major goals: (1) to help you construct a set of physics ideas that you can apply to explain phenomena that are intrinsically interesting at a level appropriate to an elementary school science curriculum; (2) to help you understand the process of doing science; (3) to give you practice and confidence in doing science, and (4) to link the development of the course material to your own learning. The teaching and learning strategies used in this course will be valuable and appropriate for use in your teaching career. No specific background in science or mathematics is assumed in this course.

Phys 3993 Directed Studies
1-5 credit(s), max credits 10, 10 completions allowed;
Instructor: STAFF
Description: Directed study in Physics in areas arranged by the student and a faculty member.

Phys 3994 Directed Research
1-5 credit(s), max credits 10, 10 completions allowed;
Instructor: STAFF
Description: Directed research in physics in areas arranged by the student and a faculty member.

Phys 4002 Electricity and Magnetism
4 credit(s);
Instructor: STAFF
Description: The course emphasizes a mathematically sophisticated development of Maxwell’s equations and their applications. This course develops the skills of solving the difficult problems that arise in complex electromagnetic interactions using advanced mathematical techniques. The fundamental concepts of electromagnetism such as Gauss’ Law, the Biot-Savart Law, Ampere’s Law, and Faraday’s Law will be revisited from a more sophisticated point of view and using more advanced mathematics than in introductory courses. The innate connection between electromagnetism and special relativity will be addressed. Mathematics beyond the prerequisite mathematics courses are developed as required. There will be an emphasis on vector calculus such as the use of Laplace’s equation. Knowledge of physics learned in Physics 2303, 2403H, or 2503 is assumed. A discussion section will give you the opportunity to discuss your conceptual
understanding and practice your problem solving skills in collaboration with other students.

**Phys 4052W Methods of Experimental Physics II**  
5 credit(s); Meets CLE req of Writing Intensive  
**Instructor:** STAFF  
**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.  
**Style:** 25% Lecture, 10% Discussion, 65% Laboratory.  
**Grading:** 10% mid exam, 50% reports/papers, 15% in-class presentation, 25% laboratory evaluation.  
**Exam Format:** Quantitative and qualitative problems

**Phys 4121W History of 20th-Century Physics**  
3 credit(s); general physics or instr consent Credit will not be granted if credit has been received for: HSCI 4121W; Meets CLE req of Writing Intensive  
**Instructor:** STAFF  
**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.

**Phys 4211 Introduction to Solid-State Physics**  
3 credit(s);  
**Instructor:** STAFF  
**Description:** A modern presentation of the properties of solids. 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:** 30% mid exam, 30% final exam, 40% problem solving.  
**Exam Format:** Problem Solving

**Phys 4501 Experimental Project**  
1-5 credit(s), max credits 5, 1 completion allowed;  
**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);  
**Instructor:** STAFF  
**Description:** Student may contact the instructor or department for information.

**Phys 4721 Special Topics in the Physical Sciences: Applied Physics of Advanced Topics**  
A-F only, 1-4 credit(s), max credits 8;  
**Instructor:** Aryal, Bijaya  
**Description:** Student may contact the instructor or department for information.

**Phys 4911 Introduction to Biopolymer Physics**  
3 credit(s); [2303, 2403H, 2503] or Chem 3501 or instr consent Credit will not be granted if credit has been received for: PHYS 5081;
Instructor: STAFF
Description: This course is an introduction to biological physics and soft condensed matter physics. The course will emphasize physical ideas involved in experimental and theoretical understanding of biological and synthetic macromolecules and materials. This course is for seniors and graduate students in physics, other natural sciences, or engineering.
Style: 90% Lecture, 10% Discussion.
Grading: 30% final exam, 30% quizzes, 40% problem solving.
Exam Format: Problem solving

Phys 4950H Senior Thesis
S-N only, 1-3 credit(s), max credits 6;
Instructor: STAFF
Description: Independent project with adviser.

Phys 4960H Honors Seminar
OPT No Aud, 1 credit(s), max credits 2;
Instructor: STAFF
Description: Designed to prepare students for senior honors thesis projects and provide guidance in choice of future careers.

Phys 4993 Directed Studies
1-5 credit(s), max credits 10, 10 completions allowed;
Instructor: STAFF
Description: Directed study in Physics in areas arranged by the student and a faculty member.

Phys 4994 Directed Research
1-5 credit(s), max credits 10, 10 completions allowed;
Instructor: STAFF
Description: Directed research in physics in areas arranged by the student and a faculty member.

Phys 5002 Quantum Mechanics II
4 credit(s);
Instructor: STAFF
Description: Part II of a year-long course sequence in quantum mechanics for first-year graduate students in physics and other fields. Completion of Phys 5001 will be assumed. This course will include such topics as electron spin, the addition of angular momentum, rotations and tensor operators, systems of identical particles and second quantization, multi-electron atoms, and the Klein-Gordon and Dirac equations. This course will include such topics as the hydrogen atom, spin, addition of angular momentum, rotations and tensor operators, variational and WKB methods, time-independent and time-dependent perturbation theory, scattering theory, and the Dirac equation.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 40% final exam, 30% problem solving.
Exam Format: Problems to be solved.

Phys 5012 Classical Physics II
4 credit(s);
Instructor: STAFF
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: STAFF
Description: Teaching assistant seminar covering pedagogy for introductory physics classes. Topics from educational research and practice as applied to classroom.

Phys 5081 Introduction to Biopolymer Physics
3 credit(s); working knowledge of [thermodynamics, statistical mechanics] Credit will not be granted if credit has been received for: PHYS 4911;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Phys 5701 Solid-State Physics for Engineers and Scientists
Phys 5950 Colloquium Seminar
S-N only, 1 credit(s);
Instructor: STAFF
Description: Colloquium of School of Physics and Astronomy.

Phys 5970 Physics Journal Club
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: STAFF
Description: Weekly presentation, discussion, and critical analysis of important papers led by students.

Phys 5980 Introduction to Research Seminar
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: STAFF
Description: Introduction to the research activities of the School of Physics and Astronomy.

Phys 5993 Directed Studies
1-5 credit(s), max credits 15, 15 completions allowed;
Instructor: STAFF
Description: Directed study in Physics in areas arranged by the student and a faculty member.

Phys 5994 Directed Research
1-5 credit(s), max credits 15, 15 completions allowed;
Instructor: STAFF
Description: Directed research in physics in areas arranged by the student and a faculty member.

Phys 8011 Quantum Field Theory I
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Phys 8100 Seminar: Problems of Physics Teaching and Higher Education
1 credit(s), max credits 3, 3 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Phys 8200 Seminar: Cosmology and High Energy Astrophysics
S-N only, 1 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Current topics in cosmology and high energy astrophysics.

Phys 8300 Seminar: Biological and Medical Physics.
S-N only, 1 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Seminars on current research topics in biological and medical physics.

Phys 8500 Plan B Project
4 credit(s);
Instructor: STAFF
Description: Project topic arranged between student and instructor. Written report required.

Phys 8502 General Relativity and Cosmology II
3 credit(s);
Instructor: Olive, Keith A
Description: Student may contact the instructor or department for information.

Phys 8600 Seminar: Space Physics
S-N only, 1 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Current topics in space physics and plasma physics.

Phys 8700 Seminar: Condensed Matter Physics
S-N only, 1 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Students enrolled for 8700 must attend the Condensed Matter Seminar on Thursdays at 1:25pm and the Condensed Matter Sack Lunch Seminar on Tuesdays at 12:20pm every week. In addition, students registering must present a Tuesday Sack Lunch for each registration. If a student enrolls for 8700 twice in one academic year then one of the two required presentations can be presented in the following academic year.

Phys 8702 Statistical Mechanics and Transport Theory
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Phys 8712 Solid-State Physics II
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Phys 8750 Advanced Topics in Condensed Matter Physics
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Greven, Martin
Description: The purpose of this course is to familiarize you with select topics and experimental methods in the bourgeoning field of Quantum Materials. The course is intended for graduate and advanced undergraduate students. Prerequisites are flexible, but they include prior or concurrent undergraduate introductory solid state physics, some familiarity with quantum mechanics, statistical and thermal physics. Please do not hesitate to contact the instructor if you feel uncertain about meeting these requirements. The class will be a rich mix of lectures, guest lectures and discussion of select topics in Quantum Materials. For more information, please see the syllabus.

Phys 8800 Seminar: Nuclear Physics
S-N only, 1 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Seminars on current research topics.

Phys 8900 Seminar: Elementary Particle Physics
S-N only, 1 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Seminars on topics in elementary particle physics, high energy physics, particle astrophysics and cosmology.

Phys 8902 Elementary Particle Physics II
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Phys 8994 Research in Physics
1-12 credit(s), max credits 24, 24 completions allowed;
Instructor: STAFF
Description: Research under faculty direction.

Physiology 6-125 Jackson Hall

Phsl 3051 Human Physiology
4 credit(s); [BIOL 1009 or 1 yr college biol], 1 yr college chem
Credit will not be granted if credit has been received for: PHSL 3050;
Instructor: Anderson PhD, 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. See the following url for a sample syllabus: http://physiology.med.umn.edu/courses/phsl3051/Syllabus.3051.general.info.pdf
NOTE: Students who need physiology but do not require a lab may be interested in Phsl 3050 Physiology Cells to Systems. This course has a majority of the same learning outcomes but has no lab component. Phsl is offered summer semester. See our department website for more information about registration.
http://physiology.med.umn.edu/courses/phsl3051/3051Registration.html
Style: 70% Lecture, 5% Film/Video, 10% Laboratory, 5% Small Group Activities, 10% Demonstration. Three hours of lecture per week will time for small group activities. Two hours of lab per week with a combination of videos, hands on labs, demonstrations, and critical thinking exercises.
Grading: 60% mid exam, 25% final exam, 10% laboratory evaluation, 5% problem solving. 3 exams worth 20% each. A cumulative final exam worth 25% and lab work worth 10% and critical thinking exercises worth 5%. A 5 point extra credit project can be done for lab.
Exam Format: Multiple choice questions

Phsl 3095 Problems in Physiology
1-5 credit(s), max credits 20, 20 completions allowed;
Instructor: Barnett, Vincent A
Description: Student may contact the instructor or department for information.

Phsl 4021 Advanced Physiology and Bioengineering: Bionic Human
A-F only, 3 credit(s);
Instructor: Levitt, David George
Description: This course uses the theme of the The six million dollar man to develop an in depth understanding of the physiology of different organ systems. Comparison of human organs versus advanced synthetic devices provides new insights into the complexity of human physiology. Some of the topics covered include: artificial heart, kidney, pancreas and lung; comparison of the eye versus the digital camera; and artificial intelligence of pattern recognition. The emphasis is on student reading and analysis of current literature. Class time will involve primarily student discussions. Class attendance is required. Students will also be required to submit a short analytical paper each week. The papers will be read and discussed on line by the instructor and the entire class. The course is designed for upper division and graduate biology and engineering students and the only prerequisite is physiology 3061 or equivalent.
Style: 40% Lecture, 55% Discussion, 5% Web Based.
Grading: 70% reports/papers, 10% attendance, 10% in-class presentation, 10% class participation.

Phsl 4031 Physiological Discussions: Contemporary Topics
A-F only, 2 credit(s);
Instructor: Barnett, Vincent A
Description: Student may contact the instructor or department for information.

Phsl 4095H Honors Problems in Physiology
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Barnett, Vincent A
Description: Student may contact the instructor or department for information.

Phsl 4900 Advanced Physiology Teaching Laboratory
A-F only, 1-6 credit(s), max credits 12;
Instructor: Anderson PhD, Lisa Carney
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;
Phsl 5094 Research in Physiology
1-5 credit(s), max credits 20, 20 completions allowed;
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;
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;
Instructor: Katz, Stephen A.
Description: Student may contact the instructor or department for information.

Phsl 5096 Integrative Biology and Physiology Research Advances
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Townsend DVM, DeWayne
Description: Student may contact the instructor or department for information.

Phsl 5101 Human Physiology
5 credit(s);
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 (INMD 6814). Students should be registered in a degree-granting graduate program. The course is an advanced survey of human physiology. Topics presented include 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 INMD 6814. 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 about 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 Clinical Physiology II
A-F only, 3 credit(s);
Instructor: Anderson PhD, Lisa Carney
Description: Cellular mechanisms, disease states and clinical applications of metabolic systems: respiratory physiology, renal physiology, acid base physiology, metabolism, gastrointestinal physiology, endocrine physiology, physiology of pregnancy and labor. Students do not need to have taken Clinical Physiology I to take Clinical Physiology II but they should have had a good introductory physiology course. This course is appropriate for undergraduates interested in a health sciences career, master's level students and nurse anesthesia DNP students. See the following link for a sample syllabus.

Phsl 5444 Muscle
3 credit(s); 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 5444Credit 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);
Instructor: Iaizzo PhD, Paul Anthony
Description: Student may contact the instructor or department for information.
Phsl 5525 Anatomy and Physiology of the Pelvis and Urinary System
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed; One undergrad anatomy course, one undergrad physiology course, instr consent Credit will not be granted if credit has been received for: ANAT 5525;
Instructor: Katz, Stephen A.
Description: Student may contact the instructor or department for information.

Phsl 6051 Systems Physiology
A-F only, 4 credit(s);
Instructor: Katz, Stephen A.
Description: This course is a graduate level survey of Physiology primarily intended for first year dental students. If appropriate, graduate students requiring a Physiology course can take the class with permission of the instructor.

Phsl 8216 Selected Topics in Autonomic and Neuroendocrine Regulation
S-N only, 1 credit(s);
Instructor: Engeland, William C
Description: Student may contact the instructor or department for information.

Phsl 8232 Critical Reading of Journal Articles in Physiology
A-F only, 2 credit(s), max credits 4;
Instructor: Townsend DVM, DeWayne
Description: This course is primarily for graduate students in the Integrative Biology and Physiology graduate program. Others wishing to register should contact the course director.

Phsl 8242 Professional Skills Development For Biomedical Scientists
A-F only, 1 credit(s);
Instructor: Metzger, Joseph Mark
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);
Instructor: Anderson, James Allan
Description: Student may contact the instructor or department for information.

Plant Biology  220 Biological Sciences Center

PBio 4511 Flowering Plant Diversity
3 credit(s);
Instructor: Sendall, Kerrie
Description: Student may contact the instructor or department for information.

PBio 4793W Directed Studies: Writing Intensive
S-N only, 1-7 credit(s), max credits 7, 7 completions allowed; Meets CLE req of Writing Intensive
Instructor: STAFF
Description:

PBio 4794W Directed Research: Writing Intensive
S-N only, 1-6 credit(s), max credits 42, 7 completions allowed; 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;
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;
**PlPa 2001 Introductory Plant Pathology**  
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: 30% Lecture, 2% Film/Video, 5% Discussion, 50% Laboratory, 13% Small Group Activities.  
Grading: 24% mid exam, 25% final exam, 5% quizzes, 10% written homework, 4% attendance, 32% laboratory evaluation.  
There are two mid semester exams - each worth 12% Laboratory evaluation - worksheets, 22%; 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**  
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: 40% Lecture, 30% Discussion, 30% Laboratory.  
Grading: 40% mid exam, 20% 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;  
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**  
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:** 40% Lecture, 30% Discussion, 30% Laboratory.

**Grading:** 40% mid exam, 20% written homework, 40% laboratory evaluation.

**Exam Format:** Short answer, Short essay

**PIPa 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

**PIPa 5103 Plant-Microbe Interactions**

3 credit(s);
Instructor: Bradeen, James M
Description: Student may contact the instructor or department for information.

**PIPa 5103 Plant-Microbe Interactions**

3 credit(s);
Instructor: Figueroa, Melania
Description: Student may contact the instructor or department for information.

**PIPa 5300 Current Topics in Molecular Plant Pathology**

S-N only, 1-2 credit(s), max credits 2;
Instructor: Bradeen, James M
Description: Student may contact the instructor or department for information.

**PIPa 5660 Plant Disease Resistance and Applications**

A-F only, 3 credit(s);
Instructor: Steffenson, Brian Joel
Description: Student may contact the instructor or department for information.

**PIPa 5999 Special Topics in Plant Pathology**

1-8 credit(s), max credits 8, 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.

**PIPa 8090 Advanced Procedures and Research in Plant Pathology**

1-8 credit(s), max credits 8, 1 completion allowed;
Instructor: Blanchette, Robert A
Description: Student may contact the instructor or department for information.

**PIPa 8103 Plant-Microbe Interactions**

3 credit(s);
Instructor: Bradeen, James M

**PIPa 8103 Plant-Microbe Interactions**

3 credit(s);
Instructor: Figueroa, Melania
**PlPa 8104 Plant Virology**  
A-F only, 2 credit(s);  
**Instructor:** Lockhart, Benham E  
**Description:** Student may contact the instructor or department for information.

**PlPa 8105 Plant Bacteriology**  
2 credit(s);  
**Instructor:** Samac, Deborah A  
**Description:** Student may contact the instructor or department for information.

**PlPa 8123 Research Ethics in Plant and Environmental Sciences**  
S-N only, 0.5 credit(s); Enrolled in a plant/environmental grad research program  
**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.

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**Polish**  
**320 Folwell Hall**

**Plsh 3002 Intermediate Polish**  
5 credit(s); 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); 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.

**Plsh 5993 Directed Studies**  
1-3 credit(s), max credits 3, 1 completion allowed;  
**Instructor:** Polakiewicz, Leonard Anthony  
**Description:** Student may contact the instructor or department for information.

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**Political Science**  
**1414 Social Sciences Tower**

**Pol 1001 American Democracy in a Changing World**  
4 credit(s); Meets CLE req of Social Sciences  
**Instructor:** Abernathy, Scott F  
**Description:** This course is intended to introduce students to the expressed hopes of the American people for their government and to the institutions and processes that have been created and recreated to achieve these hopes. What do we mean by good government? Have we achieved it? How do we build it? Through an examination of the roles of American political institutions and the behavior of American citizens, we will be able to critically reflect on issues such as political and economic inequality in the U.S., the role of American political and economic power in the world, and the possibility for an American public policy that lives up to the ideals of the founders. By the end of the semester students should have a basic understanding of the structure and function of American government as well as an increased ability to
critically reflect on the degree to which our institutions, processes, and citizens live up to the expectations placed on them.

Style: 60% Lecture, 20% Discussion, 20% Small Group Activities.

Grading: 50% mid exam, 25% final exam, 25% reports/papers.

**Pol 1001 American Democracy in a Changing World**
- **4 credit(s); Meets CLE req of Social Sciences**
- **Instructor:** Myers, C. Daniel
- **Description:** Why doesn't Congress seem to work? Why do some people have political beliefs that seem crazy to other people? Why do we let nine unelected judges decide which laws are unconstitutional and which ones are not? This course will introduce students to politics in the United States, addressing these and many more questions about how the American political system really works. We will begin with the founding principles and historical development of the American system of government and then move on to examine the contemporary structure and function of American political institutions and the role that average citizens play in the political process. Students will exit the class with a better understanding of how the American political system succeeds or fails at living up to our ideals and what we can do about it.

**Pol 1025 Global Politics**
- **4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences**
- **Instructor:** Freeman, John Roy
- **Description:** Global politics introduces students to the study of the world's political systems and to the debates over certain global issues. Various theoretical frameworks are examined throughout the semester, but the emphasis is on the so-called liberal perspective. Related middle range accounts of war and of international political economy also are studied. While many global political issues will be mentioned, the focus will be on the legacies of the East-West conflict, particularly nuclear proliferation, and on the North-South conflict, especially Southern demands for distribitional justice. At the end of the semester, students will be able to describe and predict the evolution of a global political system. In addition, they will be able to carve out and defend a stand on one of the global issues mentioned above.
- **Style:** Some digitized video materials are used.
- **Grading:** 30% mid exam, 40% final exam. Weightings are approximate
- **Exam Format:** A mix of short answers/essays and long essays

**Pol 1025 Global Politics**
- **4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences**
- **Instructor:** Jutila, Matti Antero
- **Description:** ?Personal is political? and ?local is global and global is local)?. This course offers students tools to understand the global and political aspects of various phenomena they encounter in local, daily routines or in the media. We will explore, among other questions, how traditional nation-states function, how people, goods, capital and ideas move across state borders, why does politics turn to violence, how global trade and finance affect us and others, how can we deal with environmental problems, and, most importantly, how all these questions are affected by the political organization of the world. The perspective of the course is `European? ? without forgetting views from the other corners of the globe. This means that instead of analyzing global politics only as a system of interacting states ? as is often the case in American textbooks ? we will also focus on the institutions and rules that are the foundation of international society. With cases from different eras and around the world the course gives an introduction to the dynamics of contemporary global politics. Work Load: 50-90 pages reading per week, weekly small-group on-line discussions, 3 exams. Grade: 40% mid exams, 40% final exam, 10% online discussion, 10% class participation.

**Pol 1054 Politics of Countries Around the World**
- **4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences**
- **Instructor:** Brooks, D. Christopher
- **Description:** Student may contact the instructor or department for information.

**Pol 1201 Political Ideas and Ideologies**
- **4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Historical Perspectives**
- **Instructor:** Binay, Sema
- **Description:** Student may contact the instructor or department for information.
Grading: 50% reports/papers, 20% journal, 30% reflection paper.

Pol 3070 Faculty-Supervised Individual Field Work
A-F only, 1-13 credit(s), max credits 13, 1 completion allowed;
Instructor: Soper, Paul W
Description: Student may contact the instructor or department for information.

Pol 3080 Faculty-Supervised Individual Internships
A-F only, 3-13 credit(s), max credits 15, 3 completions allowed;
Instructor: Soper, Paul W
Description: Student may contact the instructor or department for information.

Pol 3085 Quantitative Analysis in Political Science
A-F only, 4 credit(s); Meets CLE req of Mathematical Thinking
Instructor: Bagozzi, Benjamin E
Description: The purpose of this course is to teach you how to accurately construct and test theories of political science. To do so, we will seek to incorporate data and statistics in a manner that convincingly, and truthfully, tests and communicates questions of political science to the average individual. Throughout this course, we will accordingly spend a lot of time immersed in actual data sets, and applications. Upon doing so, you will not only become well versed in math and statistics, but will also learn to reason through problems with data, and use your newfound statistical knowledge to frame convincing arguments. Learning these skills is important not only to modern political science, but also to business, law, public policy, and other related fields in the social sciences.

Pol 3085H Honors Course: Quantitative Analysis in Political Science
A-F only, 4 credit(s); Meets CLE req of Mathematical Thinking
Instructor: Miller, Joanne Marie
Description: Political science 3085 is a four credit upper-level undergraduate course that fulfills the LE Mathematical Thinking Core requirement. The course designed to introduce students to the techniques political scientists use to answer research questions with quantitative data. Political scientists increasingly utilize quantitative data to shed light on a variety of diverse topics, such as the relationship between democracy and economic growth, determinants of voter choice, and voter turnout in the United States. This course will focus on issues of research design, hypothesis formation, causation, basic statistical techniques, and how to implement these techniques and manage data using computer software. Not only will students learn how to analyze quantitative data, but this course will also enable students to be more informed consumers of political science research.
Style: 70% Lecture, 20% Laboratory, 10% Small Group Activities.
Grading: 18% mid exam, 18% final exam, 18% reports/papers, 18% written homework, 18% additional semester exams, 10% attendance.

Pol 3108H Honors Tutorial: Thesis Preparation and Political Science Inquiry
A-F only, 3 credit(s);
Instructor: Myers, C. Daniel
Description: Student may contact the instructor or department for information.

Pol 3225 American Political Thought
3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Soper, Paul W
Description: We will begin with an examination of Puritan political ideas, and remain attentive to the role of religious ideas on American political thought throughout the course. Next we will devote considerable time to the Revolutionary and Constitutional periods, focusing in particular on the arguments for and against ratification of the Constitution. Then we will move on to examine arguments over federalism and slavery, women's and workers' rights, as well as the emergence of romantic individualism. Finally, we will look at debates over the emergence of industrial society, the Populist, Progressive, and Socialist responses to it, and debates over racial equality. Prominent theorists covered include Winthrop, Franklin, Paine, Jefferson, Adams, Madison, Hamilton, the Anti-Federalist "Brutus," Emerson, Thoreau, Fuller, Calhoun, Fitzhugh, Douglass, Lincoln, Sumner, Bellamy, DuBois, Goldman, Debs, Dewey, and King. Throughout the course we will be attentive to understanding not only particular political theories, but also how each thinker was influenced by past theories, and by the political, social, and economic context in which he or she wrote.
Style: 25% Lecture, 75% Discussion.
Grading: 20% mid exam, 40% final exam, 40% reports/papers.
Exam Format: Essay

Pol 3235W Democracy and Citizenship
3 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
Pol 3251W Power, Virtue and Vice: Ancient and Early Modern Political Theory
3 credit(s);5251 Credit will not be granted if credit has been received for: POL 5251; Meets CLE req of Writing Intensive
Instructor: Goltz, Caleb Timothy
Description: What is justice? What is a good society? What would it mean to live a good or bad life in that society? What is the place of the gods or God here on earth? In order to see how others have answered these enduring political questions, we read Plato, Aristotle, Cicero, Augustine, Aquinas, Machiavelli, Luther, and others. While reading those texts we also examine the concepts of power, virtue, and vice to chart how political concepts gain currency, change, or fall out of use. By reading the classic texts and examining the political concepts contained within them, we gain an appreciation for political continuities and discontinuities across eras, as well as a critical distance from and perspective on our present politics.

Pol 3309 Justice in America
3 credit(s);
Instructor: Mohammad-Zadeh JD, PhD, Kati
Description: The study of judicial politics. Are judges and courts political actors and institutions? How are judges selected? How/why do these individuals/institutions behave as they do? What influences judicial decisions? Can we predict judicial outcomes based on past behavior and articulated political preferences? What impact do decisions have? Why do people comply with them? This course will be 70% lecture, 30% discussion. There will be 2 exams and 10 -15 pages of writing.

Pol 3310 Topics in American Politics: Gender and Politics
3 credit(s), max credits 6;
Instructor: Marchetti, Kathleen Maeve
Description: This course is designed as an overview to the field of gender and politics and examines the role that women play in the U.S. policy process. We will begin by discussing how public policies are "gendered" and how these policies compare to feminist thinking about the related issue area. We then examine different theories of the role(s) gender plays in various aspects of politics. For example, we will explore different gender gaps between men and women in political attitudes and participation and examine some of the potential causes behind those differences. We will also focus on how gender affects running for political office and how women's behavior once in office may (or may not) differ from their male counterparts. The class is designed to develop your political awareness, demonstrate how gender affects the nature of American politics and show you how regular citizens affect issues of importance. Throughout this class, you will learn how to think critically about American political events, to put them into context and to formulate cogent arguments about them.

Pol 3319 Education and the American Dream
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Abernathy, Scott F
Description: This course is intended as introduction to education politics and policy in the United States. It is designed for any student who might have an interest in exploring education, public policy, or American government. Topics will include equality of educational opportunity, educating democratic citizens, school finance, the role of political institutions in making educational policy, and efforts to reform and remake American education, including charter schools and private school vouchers. By the end of the course, students should have a basic understanding of the provision of education in the United States, including the ways in which education is governed and the institutions involved in that governance. Students should be able to critically reflect on the degree to which American education fulfills the sometimes-competing goals Americans have for our schools.
Style: 55% Lecture, 25% Discussion, 20% Small Group Activities.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.
Exam Format: essay, short essay
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Snell Jr, Paul Alan
Description: This course is intended as introduction to education politics and policy in the United States. It is designed for any student who might have an interest in exploring education, public policy, or American government. Topics will include equality of educational opportunity, educating democratic citizens, school finance, the role of political institutions in making educational policy, and efforts to reform and remake American education, including charter schools and private school vouchers. By the end of the course, students should have a basic understanding of the provision of education in the United States, including the ways in which education is governed and the institutions involved in that governance. Students should be able to critically reflect on the degree to which American education fulfills the sometimes-competing goals Americans have for our schools.
Style: 55% Lecture, 25% Discussion, 20% Small Group Activities.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.
Exam Format: essay, short essay

Pol 3323 Political Tolerance in the United States
3-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Lavine, Howard G
Description: Student may contact the instructor or department for information.

Pol 3410 Topics in Comparative Politics: Russian Politics
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Collins, Kathleen A
Description: This course examines major themes and periods in Soviet and Post-Soviet Russian politics. It begins with the Russian Revolution of 1917, and continues with a study of the creation of the USSR and Soviet rule under Lenin, Stalin, and later decades. We look in depth at the economic and political system set up by the Communist Party, and at the causes of its collapse in 1991, which has had profound legacies for the post-Soviet development of Russia. Then in the second half of the course we turn to themes of political, economic, social and civic development under Yeltsin and Putin. We will pose the following questions: Why does democratization begin and why does it fail? How is economic reform undermined? What type of state and regime is Russia now? What caused the Chechen wars and the massive bloodshed in the Caucasus during this period? Is Putin trying to recreate the Soviet Union and retake control of its neighbors? Are US-Russian relations improving as a result of Obama’s "Reset," or are we now in an era of a new Cold War? The coursework involves significant reading (about 75-100 pages per week), a research paper, class participation, two exams, and several short writing assignments.
Style: 75% Lecture, 10% Film/Video, 15% Discussion.
Grading: 30% mid exam, 35% final exam, 30% reports/papers, 5% class participation. One or two midterms, one final exam GRADING VARIES BY SEMESTER depending on enrollment.
Exam Format: Essays and short answers.

Pol 3410 Topics in Comparative Politics: Russian Politics
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Habchi, Daniel
Description: This course examines major themes and periods in Soviet and Post-Soviet Russian politics. It begins with the Russian Revolution of 1917, and continues with a study of the creation of the USSR and Soviet rule under Lenin, Stalin, and later decades. We look in depth at the economic and political system set up by the Communist Party, and at the causes of its collapse in 1991, which has had profound legacies for the post-Soviet development of Russia. Then in the second half of the course we turn to themes of political, economic, social and civic development under Yeltsin and Putin. We will pose the following questions: Why does democratization begin and why does it fail? How is economic reform undermined? What type of state and regime is Russia now? What caused the Chechen wars and the massive bloodshed in the Caucasus during this period? Is Putin trying to recreate the Soviet Union and retake control of its neighbors? Are US-Russian relations improving as a result of Obama’s "Reset," or are we now in an era of a new Cold War? The coursework involves significant reading (about 75-100 pages per week), a research paper, class participation, two exams, and several short writing assignments.
Style: 75% Lecture, 10% Film/Video, 15% Discussion.
Grading: 30% mid exam, 35% final exam, 30% reports/papers, 5% class participation. One or two midterms, one final exam GRADING VARIES BY SEMESTER depending on enrollment.
Exam Format: Essays and short answers.

Pol 3475 Islamist Politics
A-F only, 3 credit(s);
Instructor: Collins, Kathleen A
Description: Course Description The relationship between Islam and politics ? both in the Muslim world and in the West -- is one of the most important political issues of our day. Especially since 9/11, scholars and policy makers around the world have been debating the compatibility or conflict between Islam and democracy, the tense relationship between ?the Muslim
world? and the US, the roots of rising Islamist movements in the 20th century, the causes of terrorism and suicide bombings, and the clash or compatibility of ?Muslim? and ?Western? cultures. This class will address these issues by taking a historical and political look at the development of Islam (the religion) and Islamism (Islamic political movements) in many areas of the Muslim world. We will begin by discussing the Islamic faith and historical debates about its relationship to politics. Then we will turn to the twentieth century, and examine the rise of Islamist politics in the Middle East and North Africa (e.g. Saudi Arabia, Egypt, Iran, Sudan) and south central Asia (e.g. Pakistan, Afghanistan). We will study the successes and failures of Islamist revolutions. Then we will focus on the evolution of the ?Arab Spring? and its implications for both Islamism and democracy in that region. In doing so, we will discuss debates about the compatibility of Islam and democracy, and examine cases of democratic success in the Muslim world. We will examine the rebirth of Islam and rise of Islamism in Eurasia (post-Soviet Central Asia, Russia, and the Caucasus) during the last two to three decades. We will examine the effects of state repression of Islam and religious freedom in those countries. We will also discuss varying ideas about jihad, and the rise of global jihadists and terrorist groups, such as Al Qaeda. We will study the jihads waged by Al Qaeda and the Taliban in Iraq and Afghanistan, and the implications of militancy and terrorism for establishing stability and democracy in the Muslim world. We will read both Muslim and non-Muslim perspectives on these problems, and will discuss the intense debates over these issues within the West as well as within the diverse Muslim world. Understanding these issues is critical to gaining perspective on the troubling state of today?s complex global politics, and US foreign policy in Afghanistan, Iraq, and elsewhere. We hope that this course will generate knowledge and understanding, and through that, tolerance and wisdom in dealing with these critical issues. The course requirements likely include two exams and a paper. Final requirements will be printed on the syllabus in January.

Pol 3479 Latin American Politics
3 credit(s); Credit will not be granted if credit has been received for: POL 5479; Meets CLE req of Global Perspectives
Instructor: Hilbink, Lisa
Description: This course examines historical and contemporary patterns of political and economic stasis and change in Latin America. It aims not only to help students understand the similarities and differences in outcomes in the region over time, but also to reflect on what Latin America's experiences can teach us about the requirements of and barriers to meaningful democracy and sustainable and equitable development around the world. The course presents competing theoretical approaches and discusses them in the context of the political trajectories of four major Latin American cases: Argentina, Chile, Mexico, and Venezuela. Readings on other countries are occasionally assigned and students have opportunities to draw on other cases for writing assignments.
Style: 70% Lecture, 30% Discussion.
Grading: 20% mid exam, 25% final exam, 35% reports/papers, 20% class participation.
Exam Format: Combo of short answer, IDs, and essay

Pol 3769 Public Opinion and Voting Behavior
3 credit(s); Credit will not be granted if credit has been received for: POL 5767; Meets CLE req of Social Sciences
Instructor: Luttig, Matthew David
Description: This course covers major issues in public opinion and voting behavior. Do citizens hold real opinions about political issues? Are these opinions ideologically coherent and stable, or are they superficial and weak? How do citizens form these opinions? And, how do voters decide which candidate to vote for on Election Day? In this course we will engage major theoretical perspectives on public opinion and the survey response, and address major issues animating contemporary political debate.

Pol 3833 The United States and the Global Economy
3 credit(s);
Instructor: Lucius, Andrew Michael
Description: This course provides an overview of the impact of the global economy on domestic politics, with a particular focus on the US. The global economy impacts all forms of politics, not just those we traditionally think of as foreign policy. For example, US labor markets are highly dependent on cheap immigrant labor, the housing market is (or was?) financed by cheap foreign capital, and Walmart is dependent on cheap foreign resources to achieve those everyday low prices. Both the 2008 and 2012 general elections focused heavily on economic issues (the effects of stimulus on the economy, the appropriateness of auto and bank bailouts, the impact of government healthcare regulations on unemployment, etc.), thus complicated economic issues had major electoral consequences. This course will help you understand how the ever more complex global market impacts politics from the international to the local level. You will, I hope, become educated consumers of economic news, and be able to link it clearly to your own political preferences and those of other citizens in the US and abroad.

Pol 3835 International Relations
3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: Berliner, Daniel Phillip
Description: This class examines theories and concepts of international relations that are used in the study of war and peace, foreign policymaking, international institutions and international law, international trade, and globalization. These
Pol 4478W Contemporary Politics in Africa and the Colonial Legacy

3 credit(s);
Instructor: Parkinson,Sarah Elizabeth
Description: What explains the crisis that Africa finds itself in today? What explains "ethnic" tragedies such as Darfur, Somalia or Rwanda? Why has Africa had such difficulty in feeding itself? What explains "ethnic" tragedies such as Darfur, Somalia or Rwanda? Why has Africa had such difficulty in feeding itself? If the "socialist" path to development has proven to be bankrupt then why has the development for the last decade or so?

Grading: 15% mid exam, 15% final exam, 50% reports/papers, 20% class participation.

Pol 4477 Struggles and Issues in the Middle East

4 credit(s);
Instructor: Kelliher,Daniel R
Description: Struggles and Issues in the Middle East? is an upper-level undergraduate seminar that examines the domestic, regional, and transnational politics of the Middle East and North Africa. The class is organized into three units. The first examines major armed conflicts?anti-colonial, intra-state, and inter-state?from 1948 through the 1990s. It uses these historical moments as windows onto key issues in MENA politics such as external intervention/occupation, human rights, sectarianism, social movements, and political economy. Unit Two focuses on transnational issues such as minority populations, Islam and politics, oil production, and migrant labor. In Unit Three, students will explore the politics of the Arab Uprisings through critical reading and discussion of new (post-2009) scholarship on MENA states, organizations, and populations.

Grading: 55% reports/papers, 35% reflection paper, 10% class participation.

Pol 4473W Chinese Politics

3 credit(s);
Instructor: Luxon,Nancy
Description: Chinese Politics

Grading: 60% Lecture, 40% Discussion.

Pol 4275 Domination, Exclusion, and Justice: Contemporary Political Thought

3 credit(s); 1054 or 3051 or non-pol sci grad or instr consent
Instructor: Luxon,Nancy
Description: Violence, Sex, Money, and Race: Political theory from the early 20th century onwards faces challenges in framing the conflicts and contestations that define contemporary politics. Drawing on the theoretical frameworks offered by Judith Shklar, Isaiah Berlin, Michel Foucault, Jurgen Habermas, and Charles Taylor, this course will explore contemporary problems of political violence, sex, money, and race. The first weeks of the course will explore three models for politics: the politics of liberties (that defines politics as protection from government intrusion), the politics of discipline (that defines politics as relations of power and asymmetry), and the politics of recognition (that defines politics as a site of dignity and respect). Readings and class discussion will then consider how these theories differently help us to understand: the political violence of torture; gender, sexuality, and domestic violence; crime, punishment, and modern prisons; and finally, race relations in America. Class discussions will move consistently between political theories and current political events.

Further readings will include works by Hannah Arendt, WEB Du Bois, Judith Butler, Antonio Negri and others.

Grading: 55% reports/papers, 35% reflection paper, 10% class participation.

Pol 4478W Contemporary Politics in Africa and the Colonial Legacy

4 credit(s); 1054 or 3051 or non-pol sci grad or instr consent Credit will not be granted if credit has been received for: POL 5478; Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Nimtz Jr,August H
Description: What explains the crisis that Africa finds itself in today? What explains "ethnic" tragedies such as Darfur, Somalia or Rwanda? Why has Africa had such difficulty in feeding itself? Why has there been a decline in economic development for the last decade or so? If the "socialist" path to development has proven to be bankrupt then why has the...
capitalist course also been difficult to realize? Has a genuine revolution unfolded in South Africa and if so what kind? At the end of this course you should be in a position to give informed answers to these and other such questions. This course intends to introduce you to the political systems of sub-Saharan Africa with some attention to North Africa. Among the topics that you will examine are traditional or pre-colonial political systems, the impact of colonial rule, the reaction to colonialism and the rise of nationalism, the politics of economic development in independent Africa, and the liberation of southern Africa. An underlying assumption of the course is that the current crisis in Africa cannot be explained without an understanding of Africa’s history—before independence in the 1960s and before colonial rule at the end of the 19th century. Therefore, about half of the course will focus on events leading up to independence. Another basic assumption is that Africa’s reality can only be understood within global perspective. How that came to be will also be a focus of the course. Finally, as there are some 50 different countries on the African continent, it would be unrealistic to expect a fourteen-week course to adequately address each political system. Thus, the emphasis will be on themes and issues that affect the majority of countries. There will of course be exceptions to this, particularly in the case of South Africa which will occupy a significant portion of the course.

**Pol 4487 The Struggle for Democratization and Citizenship**

*4 credit(s)*;  
*Instructor*: Nimtz Jr, August H  
*Description*: The setting for this course is the mounting effort on the part of states and a variety of social forces to roll back the historic gains of the world-wide democratic movement—from anti-immigrant campaigns (in both fascist and non-fascist clothing) that would limit citizenship rights to efforts that undermine civil liberties in the guise of combatting terrorism. This takes place in a larger context in which increasing numbers of citizens feel disempowered and alienated from the state. As democracy and popular participation are central to citizenship the course traces the origins of the democratic process with particular emphasis on how the disenfranchised fought to become included. Both implicitly and explicitly it seeks to understand how that occurred in order to see if there are lessons of the past that might have applicability for the defense and extension of democratic rights today. To understand it was the disenfranchised who empowered themselves is in itself empowering. An underlying assumption of the course is that the inclusion of previously disenfranchised layers of society into the category of citizens is due to social struggles or the threat of such—an assumption to be examined in the course.  
*Style*: 75% Lecture, 25% Discussion.  
*Grading*: 25% mid exam, 50% final exam, 25% reports/papers.  
*Exam Format*: Essay

**Pol 4495 Politics of Family, Sex, and Children**

*A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US*  
*Instructor*: Kelliher, Daniel R  
*Description*: If you take this course you will confront contemporary fights over family, sex, and children. Here are the big questions: (1) Who controls sex? We will 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 will do same-sex marriage, polygamy, and teenage childbearing. (3) What happens to children? We will look at countries with strong pro-child policies, but also at the dark side: child soldiers, child prostitutes, and sexual abuse of children by clergy. (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 will see what policies actually help families, plus how political campaigns manipulate images of the family for their own ends. Got more questions about the class? Just ask me: kelliher@umn.edu  
*Style*: 50% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities.  
*Grading*: 10% mid exam, 10% final exam, 50% reports/papers, 10% quizzes, 20% class participation.

**Pol 4495 Politics of Family, Sex, and Children**

*A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US*  
*Instructor*: Marchetti, Kathleen Maeve  
*Description*: If you take this course you will confront contemporary fights over family, sex, and children. Here are the big questions: (1) Who controls sex? We will 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 will do same-sex marriage, polygamy, and teenage childbearing. (3) What happens to children? We will look at countries with strong pro-child policies, but also at the dark side: child soldiers, child prostitutes, and sexual abuse of children by clergy. (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 will see what policies actually help families, plus how political campaigns manipulate images of the family for their own ends. Got more questions about the class? Just ask me: kelliher@umn.edu  
*Style*: 50% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities.  
*Grading*: 10% mid exam, 10% final exam, 50% reports/papers, 10% quizzes, 20% class participation.
Pol 4810 Topics in International Politics and Foreign Policy: Nationalisms
3 credit(s), max credits 6;
Instructor: Jutila, Matti Antero
Description: Student may contact the instructor or department for information.

Pol 4867W United States Foreign Policy toward the Middle East
4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Writing Intensive
Instructor: Sampson III, Martin Wright
Description: This course examines US foreign policy and the Middle East. Its topics include, but are not limited to, the nature of the US foreign policy process; relationships between general themes of US foreign policy and themes of US policy toward the Middle East; the political structures and policies of selected countries in the region; and the internal diversity of the Middle East. In regard to the topic of the course the current decade is unfolding very differently from the previous decade in many respects. The course looks at a number of these changes and asks how prior and current US policies relate to them. There is no prerequisite. The intent of the course is that students leave with far more understanding of the region and a correspondingly more nuanced ability to think about US relationships with that region than they had when they entered the course. There are two tests. Class attendance is very important. The course is writing intensive, which means that some class instructional time is devoted to writing matters. It is difficult to realize in a university classroom how important writing is in the worlds of foreign policy and international relations with which this course is concerned. Similarly it is difficult for most students to anticipate how important certain kinds of writing skills are for people working in large organizations of any kind. With these points in mind, the course seeks to help people write insightful, coherent, and focused papers akin to what many employers hope that BA graduates will be able to do when they hire them. The assumption is that most people entering a 4xxx level course already write mechanically acceptable English and that the challenge lies in using that skill. The writing requirements include short papers and a three part larger project. The course meets the major project requirement for political science majors.
Style: 65% Lecture, 20% Discussion, 15% Small Group Activities.
Grading: 25% mid exam, 25% final exam, 40% reports/papers, 10% other evaluation. The 10% pertains to small group activities and short statements students write on reading assignments as preparation for those small group discussions.
Exam Format: one large essay question, short answer, and blank-d multiple choice. A study guide appears a week before each test. The final exam is a second test and does not cover the entire course.

Pol 4887 Thinking Strategically in International Politics
A-F only, 3 credit(s);
Instructor: STAFF
Description: This course surveys current theories of international relations, and introduces students to elementary game theory. Major topics include the causes of war, the conditions for international cooperation, and the role of international institutions. By the end of the semester, students will be expected to: 1. Understand the relevant international relations literature; 2. Understand simple game-theoretic techniques; 3. Critically analyze theories of international politics; and 4. Understand the general scientific method of theory building and empirical testing. Possible textbooks: Kenneth N. Waltz. 1954. Man, the State, and War; Waltz, Kenneth N. Theory of International Politics; Bruce Bueno de Mesquita, 2000. Principles of International Politics.
Style: Lectures and discussions after each homework is graded.
Grading: 30% mid exam, 40% final exam, 10% class participation, 20% other evaluation. homework
Exam Format: Multiple choice, essay, and short answer are all possible.

Pol 4900W Senior Paper
A-F only, 1 credit(s); 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 8060 Research Proseminar in Political Science
S-N only, 2 credit(s), max credits 8, 4 completions allowed;
Instructor: Savelberg, Joachim J
Description: This course is co-taught by Timothy R. Johnson (Political Science) and Joachim Savelberg (Sociology), incoming editors of the Law & Society Review, the official journal of the Law & Society Association and the world's leading journal in the field of law and society studies. This is the first offering in a series of six semesters. Johnson will take the lead in 2013/14, Savelberg in 2014/15. Students will read submitted papers that receive 'revise and resubmit' decisions and the reviewers' comments and discuss them with the editors. Different students may take the lead on specific papers in line with their substantive and methodological interests and expertise. Suggestions developed during these discussions will be incorporated into the R&R letters the editors will send out to authors. Students will thus get immersed in a range of cutting edge work done in the field. They will further gain crucial insights into the decision making processes associated with journal publishing. In this respect the course is intended to be a major professionalization tool that should be most helpful to graduate students who prepare to enter academic careers in which publishing papers in journals will be a crucial component. The process should make for an engaging collaborative, intellectual and professional, experience.
Style: 85% Discussion, 15% Student Presentation.
Grading: 20% in-class presentation, 80% class participation.

Pol 8107 Quantitative Political Science II
A-F only, 3 credit(s);
Instructor: Federico, Christopher Michael
Description: Student may contact the instructor or department for information.

Pol 8160 Topics in Models and Methods: Time Series - 2 Modules
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Freeman, John Roy
Description: Student may contact the instructor or department for information.

Pol 8160 Topics in Models and Methods: Panel Data Analysis
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Freeman, John Roy
Description: Student may contact the instructor or department for information.

Pol 8160 Topics in Models and Methods: Advanced Game Theory
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Hollyer, James
Description: Student may contact the instructor or department for information.

Pol 8160 Topics in Models and Methods: Bayesian Methods
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Gill, Jefferson Morris
Description: Student may contact the instructor or department for information.

Pol 8235 Democratic Theory
3 credit(s);
Instructor: Beaumont, Elizabeth
Description: Student may contact the instructor or department for information.

Pol 8260 Topics in Political Theory: Political Theory Beyond the Western Canon
3 credit(s), max credits 6;
Instructor: Tronto, Joan C
Description: Student may contact the instructor or department for information.

Pol 8308 Proseminar in Political Psychology II
S-N only, 2 credit(s); 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: Tims, Albert R
Description: Student may contact the instructor or department for information.

Pol 8360 Topics in American Politics: Mass Communication and Attitude Change
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Lavine, Howard G
Description: Student may contact the instructor or department for information.
Pol 8360 Topics in American Politics: Race and Ethnicity in U.S. Politics
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Soss, Joe
Description: Student may contact the instructor or department for information.

Pol 8405 International Political Economy
A-F only, 3 credit(s);
Instructor: Berliner, Daniel Phillip
Description: Student may contact the instructor or department for information.

Pol 8460 Topics in International Relations: Critical International Relations
3 credit(s), max credits 6;
Instructor: Blaney, David L
Description: Student may contact the instructor or department for information.

Pol 8660 Topics in Comparative Politics: Law and Courts in Emerging Democracies
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Hilbink, Lisa
Description: Student may contact the instructor or department for information.

Portuguese 214 Folwell Hall

Port 1102 Beginning Portuguese
5 credit(s);
Instructor: STAFF
Style: 15% Lecture, 60% 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);
Instructor: STAFF
Description: Continuation of 1103. This intermediate level Portuguese language course focuses on the acquisition of basic skills (Speaking, Comprehension, Reading, and Writing). Cultural aspects: Brazil, Portugal, and/or Lusophone Africa.
Style: 15% Lecture, 60% Discussion. in-class exercise
Grading: 15% mid exam, 25% final exam, 20% quizzes, 10% in-class presentation, 20% laboratory evaluation, 10% other evaluation. compositions

Port 1904 Freshman Seminar: Brazil: Short Stories from Country of the Future
3 credit(s), max credits 6; Meets CLE req of Global Perspectives
Instructor: Beal, Sophia Funkhouser
Description: Spring 2014 with Prof. Beal TOPIC: Brazil: Short Stories from the Country of the Future This course introduces students to Brazil?s finest fiction writers through short stories. In the stories, we will meet a bureaucrat who turns into a filing cabinet, a man who lives in a canoe, another who marries a corpse, a ghost with a penchant for soccer, an inept thief, a savvy fortune teller, various unfaithful wives, and the narrators who bring them to life. Students will engage in many hands-on activities?performing scenes, inventing new endings for stories, connecting characters? experiences to their own lives?to engage deeply with the fiction. Through stories, we will embark on a virtual tour of all corners of Brazil, including the largest cities (Rio de Janeiro and São Paulo), the rainforest, the backlands, and tropical islands.

Port 3001 Portuguese for Spanish Speakers
4 credit(s);
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
Port 3003 Portuguese Conversation and Composition
4 credit(s);
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 Global Portuguese: 1900-present
3 credit(s);Meets CLE req of Writing Intensive
Instructor: Beal,Sophia Funkhouser
Description: This course is the second half of a two-semester introduction to Global Portuguese literature and culture. Beginning where PORT3501w ended, we will examine Lusophone cultural production of the 20th century, focusing primarily on Brazil, though also reading texts from Portugal and Mozambique. Much of what we will study is related to different modernist traditions. We will read poetry, short stories, and plays. Although PORT3501w is not a prerequisite, I strongly recommend that anyone planning to take the full sequence take the courses in chronological order. This course is taught in Portuguese, and all of the reading, writing, and speaking will be done in Portuguese. Grading: Essay #1 (1,500 words) 25% Essay #2 (1,500 words) 25% Essay #3 (1,500 words) 25% Participation and Attendance 25%

Port 3800 Film Studies in Portuguese: Cinema in the Portuguese-speaking world
A-F only, 3 credit(s), max credits 9, 3 completions allowed;3003 or instr consent or dept consent Credit will not be granted if credit has been received for: PORT 3800H;
Instructor: Ferreira,Ana Paula
Description: Spring 2014 with Prof. Ferreira. TOPIC: Cinema in the Portuguese-speaking world This course will offer an introduction to the film cultures of Brazil, Portugal, and Lusophone Africa (more specifically: Guinea-Bissau, Angola, and Mozambique). Students are expected to critically engage with the form and content of each film, at the same time as they acquire an understanding of the historical, cultural, (geo)political, and socio-economic forces that have shaped the development of film in these various countries, in addition to the social issues raised by filmmakers. Brazilian "cinema novo" will be highlighted as a key contribution to world cinema. Notions of "cinema d'auteur" and "art film" will be carefully illustrated throughout the semester. Concepts related to film theory, the technology of film, modes of filmic production, distribution, and reception, as well as in connection to the semiotic configuration of film, will be studied. When pertinent, we will engage in a productive conversation with other world cinemas such as Hollywood, American independent cinema, and various other European, Latin American, and African film currents. This course will be taught in Portuguese, although a number of readings will be in English. All films will be in Portuguese and indigenous languages, but subtitled in English, Portuguese, Spanish, and/or French. SpPt majors are expected to use Portuguese in class discussions and in all written work. Evaluation components: Three short in-class tests, one after each segment; at least one presentation and discussion facilitation; a final research paper (about 10-12 pages text) as part of a group project, with group presentation.

Port 4102 Beginning Portuguese
2 credit(s);
Instructor: Dias,Dora Marujo
Description: Student may contact the instructor or department for information.

Port 4104 Intermediate Portuguese
2 credit(s);
Instructor: Rellier,Sandra
Description: Student may contact the instructor or department for information.

Port 5910 Topics in Lusophone Cultures and Literatures
3 credit(s), max credits 9, 3 completions allowed;
Instructor: STAFF
Description: Spring 2013 with Prof. Ferreira Women and Representation in Post/colonial Portuguese "This book is a silence: an interrogation," states Clarice Lispector's narrator in The Hour of the Star. Whose silences come forth in this and other texts written by women across different post/colonial spatiotemporal locations in Portuguese? How do their representations inscribe for posterity the embodied presences of those who, like Lispector?s Macabea, "never had much to offer"? And why should those possessing some kind of "gift for making speeches" feel compelled to re/present feminine figurations of destitution in terms of a fractured witnessing, aiming at an impossible Real? In this course, we will tackle these and other theoretical questions by attending to the social, political and philosophical changes registered between the period after World War II; the end of authoritarian, repressive, colonialist regimes, in the 1970s and 1980s; and the emergence of women-inflected writings in liberal-democratic states where political disenchantment arguably prompts
analysis and remembrance. Primary readings include the feminist, anti-colonial Novas Cartas Portuguesas; texts by Clarice Lispector, Carolina Maria de Jesus, Lygia Fagundes Telles, Lídia Jorge, and Paulina Chiziane. Selected secondary readings in history, philosophy, psychoanalysis and anthropology will also be required. Two review articles; class presentations and discussion mediation; and a literature review essay on a topic related to the course required of all graduate students. Requirements for any undergraduates taking the course will be slightly modified. Course taught in English.

Port 5910 Topics in Lusophone Cultures and Literatures: Reading the Postcolonial in Portuguese
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Ferreira, Ana Paula
Description: Spring 2014 with Prof. Ferreira Reading the Postcolonial in Portuguese "The First Written, the Last Discovered," as Gerald Moser once described them, African? Literatures in Portuguese have long been marginalized from academic discussions owing at least in part to the particular history of empire from which and against which they emerged; a history that has been characterized by some as consistently falling short of the enlightened standards of European "civilization" and its theoretical and critical discourses in English-dominant academia in the US and elsewhere. In an effort to counteract the continuing marginalization of African Literatures in Portuguese, the present course aims to (1). Denaturalize the Anglo-centric perspective dominant in postcolonial theory by familiarizing students with thinkers and issues of postcolonialism in Portuguese; and (2). introduce students to the postcolonial literatures of Angola and Mozambique, predominantly works written since the end of the armed struggle for political independence from Portugal (won in 1975) and since the end of the long, bloody civil wars that followed. Films from Cape Verde and Guiné-Bissau will also be studied; and students are encouraged to familiarize themselves with the cinema of Angola and Mozambique. Aside from breaching topics specifically relevant to the histories and cultures of the various Portuguese-language African countries, discussions will center on the role of literature as a technology of memory and forgetting and as an alternative to projects of transitional justice. Course taught in Portuguese. Primary readings in Portuguese. Students have the option of participating in class and in doing all written work in Portuguese, English or Spanish.

Port 5990 Directed Research
1-4 credit(s), max credits 9, 3 completions allowed;
Instructor: Beal, Sophia Funkhouser
Description: Student may contact the instructor or department for information.

Postsecondary Teaching and Learning 206 Burton Hall

PsTL 722 Introductory Algebra (Computer)
0 credit(s);
Instructor: Robertson, Douglas Frederick
Description: A first course in algebra taught using computer-mediated instruction. You will learn new material using interactive multimedia computer software. There are no lectures. You will be on the computer 70% of each class period. The rest of the time you will be working on algebra problems, taking exams, and working individually with the instructor. This course is not self-paced; you must follow a set schedule for checkpoints, homework, and exams. Course covers concepts and procedures of elementary algebra at a level of difficulty and abstraction geared for students enrolled at a research university. To be successful you must enter the course being able to work with whole numbers, fractions, decimals, and percents. Course content includes real number (signed number) operations, equations, inequalities, absolute value, rectangular (x-y) graphs, systems, exponents, polynomials, factoring, rational expressions and equations, and word problems. Hourly time commitment per week: Class: 4, Reading: 1, Writing: 0, Studying: 2, Homework: 8. Homework assignments ask you to work 10-40 problems each class day. Testing includes daily checkpoints (one question mini-quizzes), several 50 minute closed-book exams and a two hour comprehensive final. Course prepares you for Intermediate Algebra, PsTL 0732.
Style: 30% Discussion, 70% Web Based. Computer-mediated instruction, working on problems, interacting with instructor.
Grading: 50% mid exam, 30% 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); 4 cr equiv or grade of at least C in [0713 or 0717 or 0721 or 0722] or General Math Placement Test credit will not be granted if credit received for: 0618, 0625, 0631, 0731, 1443, 1444, 1445, 1446 Credit will not be granted if credit has been received for: PSTL 731;
Instructor: Robertson, Douglas Frederick
Description: A second course in algebra taught using computer-mediated instruction. You will 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: 8. 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 (all 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:** 50% mid exam, 30% final exam, 10% quizzes, 10% written homework.

**Exam Format:** Exams are problem oriented (e.g., Solve this equation).

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**PsTL 1004 Statistics: Understanding and Applying Data**

*4 credit(s)*; *Meets CLE req of Mathematical Thinking*

**Instructor:** Loch, Suzanne Yvette

**Description:** This project-based 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, in-depth projects, writing assignments, demonstrations, and a lot 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 students who want to fulfill the CLE requirement in Mathematical Thinking and know that statistical thinking will complement their field of study.

**Style:** 40% Lecture, 9% Discussion, 50% Small Group Activities, 1% Student Presentation.

**Grading:** 20% reports/papers, 10% quizzes, 60% additional semester exams, 10% problem solving. The 10% 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.

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**PsTL 1006 Mathematical Modeling and Prediction**

*3 credit(s)*; *[Three yrs high school math or grade of at least C+ in [0731 or 0732]] or placement test score or instr consent*  

**Credit will not be granted if credit has been received for: MATH 1031; Meets CLE req of Mathematical Thinking**

**Instructor:** Stottlemyer, Janet

**Description:** This course 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. 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, computer assisted learning, computer demonstrations, individual in class work, and small group work in the class.

**Style:** 40% Lecture, 10% Laboratory, 10% Demonstration, 40% Web Based.

**Grading:** 20% final exam, 36% special projects, 8% quizzes, 8% written homework, 28% additional semester exams.

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**PsTL 1081 Integrated Learning in the Social Sciences**

*A-F only, 2 credit(s), max credits 4;*

**Instructor:** Liu, Shiyu

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

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**PsTL 1082 Integrated Learning in the Sciences**

*A-F only, 2 credit(s), max credits 6, 3 completions allowed;*

**Instructor:** Fox, Laura J

**Description:** PSTL 1082: Integrated Learning in the Sciences, is a two-credit course in companion with CHEM 1015: Introductory Chemistry. Students enrolled in these two courses are evaluated separately; grades received in one course will not influence grades received in the other course. PSTL 1082 is a student centered course designed to develop an understanding of chemical principles needed for success in CHEM 1015. This course is also designed to develop academic skills needed for success in CHEM 1015 and future classes.
PsTL 1082 Integrated Learning in the Sciences
A-F only, 2 credit(s), max credits 6, 3 completions allowed;
Instructor: Glynn,Natalie R
Description: Student may contact the instructor or department for information.

PsTL 1131 Principles of Biological Science
4 credit(s);Meets CLE req of Biological Sciences
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 quiz, lab reports, written homework, and one problem set.
Exam Format: Multiple choice

PsTL 1135 Essentials of Human Anatomy and Physiology
4 credit(s);Meets CLE req of Biological Sciences
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. The lecture section of the course does not meet in a lecture hall, but rather in an active learning classroom that features nine-person round tables. In this setting students will work in groups to solve problems and work on projects. 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, and maybe two books, such as "When the Air Hits Your Brain," outside of regular class time. The course will make considerable use of internet-based curricular materials. Please note, this is not the first semester of a two semester anatomy and physiology course, but rather a one semester survey course designed for freshman.
Style: 10% Lecture, 30% Discussion, 30% Laboratory, 20% Small Group Activities, 10% Student Presentation.
Grading: 30% final exam, 10% quizzes, 30% additional semester exams, 30% laboratory evaluation.

PsTL 1163 Physics by Inquiry
4 credit(s);Meets CLE req of Physical Sciences
Instructor: Hsu,Leon
Description: PsTL 1163 is an introductory physics course that tries to simulate the way scientists discover and create knowledge. The course is aimed at elementary education majors and non-science majors. About 95% of the class periods will be lab, rather than lectures. Students work in small groups to perform experiments, make observations, develop theories of how things work, and test those theories by performing further experiments. Students develop an understanding of physics concepts through doing it and talking about it with their peers and with the course staff. The goal of the course is not only to learn physics concepts, but knowing HOW we know them (what is the evidence for them), being able to apply them in new situations, and being able to explain them. There is a fair amount of writing involved in the course in terms of
PsTL 1211 Sociological Perspectives: A Multicultural America
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
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. We will then apply the major ideas to the world around us, including our observations from our service learning site. The purpose of this course is to provide you with the basic tools to better understand (and question) 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% reflection paper, 10% class participation.
Exam Format: multiple-choice
PsTL 1251 Forces of Modern Historical Change: Global Perspectives
4 credit(s);Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives
Instructor: Stahl, Jason Michael
Description: This course focuses on understanding the driving forces of change which have been most consequential for global societies in the twentieth century. Along with some traditional lecture, the bulk of the course is designed to facilitate critical readings of various primary and secondary source texts.
Style: 30% Lecture, 20% Film/Video, 50% Discussion.
Grading: 25% mid exam, 25% final exam, 30% reports/papers, 20% class participation.
Exam Format: Take-home primary source evaluation exams.

PsTL 1251 America's Past and Present: Multicultural Perspectives
4 credit(s);Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Poch, Robert Karl
Description: This course explores some of the major multicultural and human rights issues in American History -- primarily since 1865 -- from a variety of perspectives. The historical roots of our cultural diversity, the effects of various cultures on our national development, the cultural contributions of our various citizens, and our shared struggle as a nation are examined through a variety of print, audio, and video sources. We will also explore some of the promises of freedom and liberty made within key documents of the American past and who they benefited or ignored at different moments in time. The assigned textbook and readings are selected to provide the historical knowledge and multicultural perspectives to support the examination of those historical themes. Documents providing multicultural perspectives are examined to stimulate class discussion while issues and events are discussed and critiqued from a variety of historical perspectives. The dynamic nature of history as a discipline will also be addressed.

PsTL 1246 Multicultural Contexts: Engaging Citizenship and Democracy
3 credit(s);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1235W;Meets CLE req of Civic Life and Ethics; meets CLE req of Social Sciences
Instructor: Peter, Gary E
Description: The Greeks defined the term "citizen" as a person who was knowledgeable and engaged in society and politics. The central question we will explore in this course is how to be an engaged citizen 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);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1235W;Meets CLE req of Civic Life and Ethics; meets CLE req of Social Sciences
Instructor: Miksch, Karen L
Description: The Greeks defined the term "citizen" as a person who was knowledgeable and engaged in society and politics. The central question we will explore in this course is how to be an engaged citizen in a multicultural democracy. 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. At the end of this course, you will be better able to analyze complex social problems and make informed decisions regarding the big issues of the day?thus, this course meets the central goal of a liberal education?making us all more informed and engaged citizens. The course also meets the University CLE requirement of Social Science Core, and the Civic Life and Ethics Theme. We will have the opportunity to explore, analyze, compare and argue issues in law, politics and society using a social science lens.
Style: 25% Lecture, 5% Film/Video, 25% Discussion, 25% Small Group Activities, 20% Student Presentation. All students will conduct a mock jury trial and play either the role of a witness or an attorney.
Grading: 30% reports/papers, 30% special projects, 20% quizzes, 10% reflection paper, 10% class participation. The Mock trial (special project) includes in class participation, a paper, and performance.
Exam Format: quizzes are multiple choice and short answer.
discussion based on both primary and secondary sources. Students will read and discuss the meaning of historical documents that highlight forces of global change such as social movements, religion, and competing economic systems. In addition to these primary source texts, students will gain a deeper understanding of the global past by analyzing interpretations of history by present-day historians. Through this work, students will gain a better understanding of the practice of history and a better understanding of what it has meant to live in the twentieth century.

**Style:** 15% Lecture, 25% Film/Video, 30% Discussion, 30% Small Group Activities.

**Grading:** 75% reports/papers, 25% class participation. 4 papers; in-class activities.

**Exam Format:** No exams

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**PsTL 1281 Principles of Psychology**

4 credit(s); Have not received college credit for intro psych
Credit will not be granted if credit has been received for: PSY 1001; Meets CLE req of Social Sciences

**Instructor:** Wambach, Catherine 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:** 15% Lecture, 25% Film/Video, 30% Discussion, 30% Small Group Activities.

**Grading:** 75% reports/papers, 25% class participation. 4 papers; in-class activities.

**Exam Format:** No exams

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**PsTL 1281 Principles of Psychology**

4 credit(s); Have not received college credit for intro psych
Credit will not be granted if credit has been received for: PSY 1001; Meets CLE req of Social Sciences

**Instructor:** Grier-Reed, Tabitha LaShaun

**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:** 15% Lecture, 25% Film/Video, 30% Discussion, 30% Small Group Activities, 10% Student Presentation. The nature of this class is primarily interactive, where the goal is to bring alive the concepts you encounter in the text in your outside reading.

**Grading:** 18% special projects, 52% additional semester exams, 5% attendance, 13% reflection paper, 7% in-class presentation, 5% class participation. Extra credit opportunities make up approximately 10% of the points available in the course (66/620).

**Exam Format:** All exams are multiple choice. There are 4 semester exams made up of 40 questions each. Each exam covers 4 chapters from the text.

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**PsTL 1281 Principles of Psychology**

4 credit(s); Have not received college credit for intro psych
Credit will not be granted if credit has been received for: PSY 1001; Meets CLE req of Social Sciences

**Instructor:** Liu, Shiyu

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

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**PsTL 1312 Creating Identities Through Art and Performance**

4 credit(s); Meets CLE req of Arts/Humanities

**Instructor:** Dorsey, Heather Jane

**Description:** Creating Identities Through Art and Performance provides instruction, practice and delivery in creating and exploring art in different mediums. Through theatrical texts, performances, painting, photography, film, music and sculpture, we will explore personal, social, and cultural identities. By creating art, you gain first-hand experience in thinking like an artist, and by critiquing your own and others’ artwork, you gain first-hand experience in thinking like a critic. There are no prerequisites for this course. You do not need previous art or performance experience to do well. In this course, you will examine concepts such as place, self, and identity. We will examine our collective stories and shared experiences by attending live performances, museums, tours, and other experiential activities some of which take place outside of class meeting times.

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**PsTL 1312 Creating Identities Through Art and Performance**

4 credit(s); Meets CLE req of Arts/Humanities

**Instructor:** Buturian, Linda J
PsTL 1366 Stories of Self and Community: Multicultural Perspectives
4 credit(s);Meets CLE req of Arts/Humanities
Instructor: Frederickson,Tina
Description: PsTL 1366 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 1365W Stories of Self and Community: Multicultural Perspectives
4 credit(s);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1366;Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Hyland,Ezra St
Description: Student may contact the instructor or department for information.

PsTL 1312 Creating Identities Through Art and Performance
3 credit(s);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1366;Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature
Instructor: Rojas Collins,Molly C
Description: This course uses a range of interactive activities and assignments to critically engage students with a variety of forms of literature that explore the diversity of experience and identity amongst individuals and communities in the United States. Through collaborative and interactive work with literary texts, students investigate the ways that literature works to illuminate power, privilege, and identity in society at the same time that it invites us to probe our own position and experience within that society. Students study formal elements of literature, the social and political contexts that shape and inform the literature, and consider their own experience in relation to these constructs. Through this work, students develop a deeper understanding of the meaning and function of literature as a way of engaging critical and creative perspectives on the human experience.
Grading: 40% mid exam, 40% reports/papers, 10% quizzes, 5% attendance, 5% in-class presentation.

PsTL 1366 Stories of Self and Community: Multicultural Perspectives
3 credit(s);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1365W;Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature
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 1366 Stories of Self and Community: Multicultural Perspectives
3 credit(s);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1365W;Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature
Instructor: Harrison,K.C.
Description: PsTL 1366 004: This course offers you the opportunity to participate in a Learning Community with students enrolled in both this class and PsTL 1246 Multicultural Contexts: Engaging Citizenship and Democracy. We will read novels, poetry, and plays that engage American society and law, including themes of justice, race, incarceration, violence and healing. What happens when a woman's deeply-felt tribal beliefs lead her to violate U.S. law? Is there any salvation for a man wrongly accused, sentenced to die in the electric chair? How does racial prejudice affect the legal process? What
kinds of personal transformations can occur in prison? What do stories of incarceration have to teach us about freedom? We will consider these questions and others that emerge as you develop your skills of reading and interpretation. Expect to participate in an active classroom that requires sharing your opinions, observations, and insight, as well as listening and responding to others. PsTL 1366 007: "Voices of American Literature." Do you like listening to stories? This innovative course introduces American Literature by ear. Using free podcasts of short stories (also available on CD), together we will hone our skills of literary analysis through listening comprehension. This course aims to help you develop an aural appreciation for literature, as well as the skills to interpret the media noise that surrounds us. Expect to contribute your voice to an active classroom. You will create your own podcasts responding to the stories you hear. Grading will include daily quizzes, class presentations and participation, Moodle forum posts, and podcasting projects.

Grading: 15% reports/papers, 25% quizzes, 30% written homework, 30% in-class presentation. 3-absence maximum.

PsTL 1367W Stories of Social Change: Global Perspectives
4 credit(s);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1368;Meets CLE req of Global Perspectives; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Winters,Kelly T
Description: Student may contact the instructor or department for information.

PsTL 1368 Stories of Social Change: Global Perspectives
3 credit(s);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1367W;Meets CLE req of Global Perspectives; meets CLE req of Literature
Instructor: Hodne,Barbara Downs
Description: This course uses a range of activities and assignments to critically engage students with a variety of forms of literature that explore the dynamics of human relationships and social change in global contexts. Through collaborative and interactive work with literary texts, students investigate the ways that literature works to illuminate individual struggles and the relationship of these struggles to larger global social forces. Students study formal elements of literature, the social and political contexts that shape and inform our reading of literature in international settings, and consider their own experience in relation to these constructs. Through this work, students develop a deeper understanding of the meaning and function of literary works and of the global society in which we live. Students gain an appreciation of how literature engages and represents the human experience in creative and critical ways.
Style: 10% Lecture, 60% Discussion, 30% Student Presentation.
Grading: 25% mid exam, 60% reports/papers, 10% quizzes, 5% in-class presentation.

PsTL 1368 Stories of Social Change: Global Perspectives
3 credit(s);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1367W;Meets CLE req of Global Perspectives; meets CLE req of Literature
Instructor: Cory,Kris
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 ourselves and also further into the world around us. Course work will center around small and large group discussions and activities and various formal and informal written assignments, including exams.
Style: 20% Lecture, 40% Discussion, 40% Small Group Activities.
Grading: 15% mid exam, 15% final exam, 30% reports/papers, 10% special projects, 10% quizzes, 10% in-class presentation, 10% class participation.

PsTL 1368 Stories of Social Change: Global Perspectives
3 credit(s);No CLA studentsCredit will not be granted if credit has been received for: PSTL 1367W;Meets CLE req of Global Perspectives; meets CLE req of Literature
Instructor: Jehangir PhD,Rashne Rustom
Description: Student may contact the instructor or department for information.

PsTL 1371 Reading Short Stories
3 credit(s);Meets CLE req of Literature
Instructor: Rojas Collins,Molly C
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Current short story format from diverse communities within North America, Africa, the Caribbean, and Europe. Emphasizes written literature inspired by oral "storytelling," storytelling as "theatre," and storytelling as communal endeavor.
Style: 100% Web Based.
Grading: See attached syllabus
Exam Format: Take-home final exam
PsTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); No CLA students w/ 60+ credits credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Trites, Jill K
Description: Students are introduced to the field of public speaking by studying basic communication theories of communication, and analyzing the complicated process that is communication; and demonstrating that, through conscious choices, one can significantly impact the effectiveness of communication. This course meets the CLE theme of Civic Life and Ethics, so the framework of the class will be analyzing communication from an ethical perspective. Students will be presenting several individual speeches (personal narrative, career speech, speech of belief, informative speech) and a group persuasive speech. All formal speeches will be recorded so that students can review their presentations. The required textbook is a free, open web-based book, so students do not have to purchase a regular textbook at the bookstore. Students will need to have daily access to the Internet (UM computer labs are great) to utilize the various technologies we will utilize in the course, including Presi, VideoANT, and Moodle.
Style: 20% Lecture, 20% Discussion, 10% Small Group Activities, 45% Student Presentation, 5% Web Based.
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); No CLA students w/ 60+ credits credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Dorsey, Heather Jane
Description: The purpose of this course is to introduce the student to the field of Speech Communication; to show basic theories of communication; illustrate the complicated process that is communication; and demonstrate that, through conscious choices, the student can significantly impact the effectiveness of communication. This course will aid the student in the development of communication skills and allows for assessment of personal strengths, weaknesses and barriers to communication. This, ultimately, will prepare the student to be a better communicator.

PsTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); No CLA students w/ 60+ credits credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
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. Because public speaking is a skill that requires practice, students will have the opportunity to give a variety of speeches throughout the semester. Students will review their speeches via video recording. Both speaking and reviewing of speeches is designed in a way to help students overcome fear of public speaking. Special focus on ethics, citizenship, voice, language.
Style: 15% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 40% Student Presentation.
Grading: 10% special projects, 20% reflection paper, 50% in-class presentation, 20% class participation.

PsTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); No CLA students w/ 60+ credits credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life and Ethics
Instructor: Frederickson, Tina
Description: This course is designed to develop an understanding of the fundamental principles and processes of face-to-face human communication, with the multicultural component coming from each student as they present speeches of personal and social relevance. Primary focus is on public communication; providing practical public speaking experiences and opportunities to analyze this rhetorical art. Emphasis is placed on frequent in-class presentations, critical and creative thinking, group activities and discussions, and increasing the awareness of the ethical & civic obligations we have as a speaker and listener. * Please note - Sections 4 & 5 are part of a Learning Community with PsTL 1131. You must be a CEHD 1st year student to enroll in these two sections this semester. The focus will be on Environmental/Sustainability Issues as a point of general conversation, research, and two major speeches. No prior knowledge is required.
Style: 10% Lecture, 5% Film/Video, 15% Discussion, 20% Small Group Activities, 45% Student Presentation, 5% Web Based.
Grading: 20% final exam, 18% written homework, 7% attendance, 50% in-class presentation, 5% class participation.

PsTL 1461 Multicultural Perspectives in Public Speaking
3 credit(s); No CLA students w/ 60+ credits credit will not be granted if credit received for: COMM 1101, COMM 1101H, GC 1461Credit will not be granted if credit has been received for: WRIT 1223; Meets CLE req of Civic Life
Instructor: Mitchell, Tania D.
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. Because public speaking is a skill that requires practice, students will have the opportunity to give a variety of speeches throughout the semester. Students will review their speeches via video recording. Both speaking and reviewing of speeches is designed in a way to help students overcome fear of public speaking. Special focus on ethics, citizenship, voice, language.
Style: 15% Lecture, 5% Film/Video, 20% Discussion, 20% Small Group Activities, 40% Student Presentation.
Grading: 10% reports/papers, 10% attendance, 70% in-class presentation, 10% class participation.

PsTL 1485 Creativity: Photography
4 credit(s); 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: Conceptual, technical, and historical aspects of photography as art. Hands-on experience with camera control, film development, enlarging, and printing in black-and-white. Individual/group critiques of student portfolios. Lab.

PsTL 1571 Computer Literacy and Problem Solving
4 credit(s); 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: RM 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, video, and audio) to larger groups. Integration of the four applications is introduced. This is a computer-mediated course and there are no lectures. The instructor helps students individually during class as they work on course projects. Course uses Microsoft Office 2010 for Windows.
Style: 90% Laboratory, 10% Web Based. Students work on computers, get help from instructor.
Grading: 50% mid exam, 35% final exam, 15% special projects.
Exam Format: Exams done on the computers in the classroom. Students modify documents as instructed.

PsTL 1907W Freshman Seminar: Diversity and Social Justice in the United States
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive
Instructor: Harrison, K.C.
Description: Student may contact the instructor or department for information.

PsTL 1908W Freshman Seminar: Civic Life and Ethics
3 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive
Instructor: Peter, Gary E
Description: This writing intensive freshman seminar will explore the treatment of legal themes in films, literary texts, and popular culture. We will look at the law through stories, cinema, television and other mediums to consider the following questions: Do these portrayals of the law enhance or inhibit our understanding of how the law works in our everyday lives, thus impacting our participation as citizens? Do literature, film and other media accurately reflect both our legal system and how lawyers are trained and the work that they do, or do they rely upon outdated, stereotypical, or sensationalized portrayals? We will also consider whether literature, film, and popular culture can actually be useful in helping us better comprehend the complexities and ethics of the law in all of its often-frustrating ambiguity. Students will have the opportunity to develop their skills in research, analysis, oral communication, and creativity through writing formal papers, participating in and leading class discussions, making presentations, writing stories and poems, and completing a group project.

PsTL 1942 Freshman Seminar: Technology and Society
3 credit(s); Meets CLE req of Technology and Society
Instructor: Jensen, Murray Stowe
Description: Student may contact the instructor or department for information.

PsTL 3324W Writing in the Workplace for Education and Human Development Majors
4 credit(s); Meets CLE req of Writing Intensive
PsTL 3324W Writing in the Workplace for Education and Human Development Majors
4 credit(s); Meets CLE req of Writing Intensive
Instructor: Cory, Kris
Description: Student may contact the instructor or department for information.

PsTL 3325V Honors: Project-Based Writing For Education and Human Development Majors
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Rojas Collins, Molly C
Description: Student may contact the instructor or department for information.

PsTL 3325V Honors: Project-Based Writing For Education and Human Development Majors
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Peter, Gary E
Description: Designed for those CEHD learners who seek to fulfill the upper level writing intensive requirement in a way that is relevant to their major and field of study, this course will support you as you manage a larger writing project. Learners in this course will form a community of writers, as each grapples with the challenges of a major project focusing on a meaningful problem or issue in your field of study. Some of the most important and most challenging work you face as you near graduation in your major is the work of bringing your academic training to bear on current issues in your field of study. By focusing on project-based writing, this course supports undergraduate learners in the endeavor to delve into and contribute to the work being done in your field to address a particular problem. You will propose a project, identify an audience, tailor your work to address your audience's needs, gather relevant information through primary and secondary research, and create a product that engages others and furthers the real-world work of solving problems. Collaborative activities and assignments will support you through the process.
Style: 10% Lecture, 40% Discussion, 40% Small Group Activities, 10% Student Presentation.
Grading: 45% reports/papers, 30% special projects, 10% reflection paper, 5% in-class presentation, 10% class participation.

PsTL 3325W Project-Based Writing For Education and Human Development Majors
4 credit(s); Meets CLE req of Writing Intensive
Instructor: Rojas Collins, Molly C
Description: Student may contact the instructor or department for information.

PsTL 3325W Project-Based Writing For Education and Human Development Majors
4 credit(s); Meets CLE req of Writing Intensive
Instructor: Peter, Gary E
Description: Designed for those CEHD learners who seek to fulfill the upper level writing intensive requirement in a way that is relevant to their major and field of study, this course will support you as you manage a larger writing project. Learners in this course will form a community of writers, as each grapples with the challenges of a major project focusing on a meaningful problem or issue in your field of study. Some of the most important and most challenging work you face as you near graduation in your major is the work of bringing your academic training to bear on current issues in your field of study. By focusing on project-based writing, this course supports undergraduate learners in the endeavor to delve into and contribute to the work being done in your field to address a particular problem. You will propose a project, identify an audience, tailor your work to address your audience’s needs, gather relevant information through primary and secondary research, and create a product that engages others and furthers the real-world work of solving problems. Collaborative activities and assignments will support you through the process.
Style: 10% Lecture, 40% Discussion, 40% Small Group Activities, 10% Student Presentation.
Grading: 45% reports/papers, 30% special projects, 10% reflection paper, 5% in-class presentation, 10% class participation.

PsTL 4216 Solving Complex Problems: Community-based Approaches
A-F only, 4 credit(s);
Instructor: Buturian, Linda J
Description: Welcome to The Mississippi, Local & Global: Community-based Approaches to Living with Rivers, Sustainably. PsTL4216 gives students the opportunity to develop a community action plan that addresses an issue involving the Mississippi River, and is grounded in multidisciplinary perspectives. The instructor, Linda Buturian, will lead students in an exploration of issues related to the Mississippi River through field trips and with guest speakers from community organizations and the university. Students will also be introduced to community based responses to other global rivers including the Mekong and Ganges Rivers. Each student will develop a community engagement plan that is responsive to the knowledge of community organizations as well as the needs of the Mississippi Rivers. Students will
choose the disciplines that will shape their methodology, conduct an interview with a community specialist, and choose the medium for their project, which could be a digital story, web site development, research paper, poster, presentation, or a series of photographs and essays. Students will share their findings with the public and through social media outlets, and then reflect on the impact of those outlets. The PsTL4216 course cultivates students community engagement experiences and capacity in leadership and multidisciplinary analysis. The course develops transferable skills that students will need in order to be leaders in community development. PsTL 4216 is a hands-on, interactive course that will give students an opportunity to learn more about the Mississippi and other global rivers, as well as to use their skills to be agents for positive social change.

Style: 10% Film/Video, 15% Discussion, 10% Small Group Activities, 10% Student Presentation, 25% Field Trips, 15% Guest Speakers, 5% Web Based, 10% Service Learning.

Grading: 25% special projects, 15% written homework, 15% attendance, 10% reflection paper, 15% in-class presentation, 20% class participation.

PsTL 5105 Increasing Access and Success in Undergraduate Classrooms
A-F only, 3 credit(s);
Instructor: Duranczyk,Irene Mary
Description: This course (delivered completely online) provides postsecondary educators with a comprehensive overview of best practices for effectively promoting access and success for all within a multicultural teaching and learning setting. Students will apply the theory and knowledge gained from this course to a review of a postsecondary institution of their choice. Students will identify issues limiting access and success and identify practices for increased access and success for all. The final product will be the design of an "intervention" suitable for the postsecondary institution to increase the likelihood of access and success all.

Style: 20% Field Trips, 80% Web Based. Students will be expected to visit a postsecondary education site at least 2-3 times during the semester. It can be the students worksite if it is postsecondary related.

Grading: 40% reports/papers, 20% written homework, 20% reflection paper, 20% class participation.

PsTL 5196 Supervised Practicum in Multicultural Postsecondary Teaching and Learning
S-N only, 3 credit(s);
Instructor: Stebleton,Michael J
Description: Student may contact the instructor or department for information.

PsTL 5206 Action Research Methods to Improve College Teaching and Learning
A-F only, 3 credit(s);
Instructor: Mitchell,Tania D.
Description: Student may contact the instructor or department for information.

PsTL 8010 Special Topics: Postsecondary Teaching and Learning: Disability Perspectives in College: Teach & Learn
3 credit(s), max credits 6;
Instructor: Higbee,Jeann Louise
Description: Student may contact the instructor or department for information.

Preventive Science Minor Institute of Child Development

Prev 8001 Prevention Science Core
OPT No Aud, 3 credit(s);
Instructor: August,Gerald
Description: Student may contact the instructor or department for information.

Product Design 101 Rapson Hall

PDes 3170 Topics in Product Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: STAFF
Description: This class examines key movements, figures, philosophies and technologies that have advanced the field of industrial/product design, and investigates how this historical foundation continues to inform and inspire the designers of today and tomorrow. Students work on a variety of projects, individually and in small groups, that explore the evolution of technology, invention of new materials, and the social and economic factors that shape everyday consumer goods. In partnership with the U of M's Goldstein Museum of Design, students will have opportunities to work hands-on with objects from the museum's collection. No prerequisites; eligible elective for interdisciplinary Design Minor and PDes Minor. 30% Lecture, 40% Discussion/Small Group Activities, 15% Field Trips, 15% Student Presentations
PDes 3704 Innovative Computer Modeling and Rendering for Design
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: PDES 5704;
Instructor: STAFF
Description: This class provides an overview of how to make high quality (well modeled, properly illuminated, carefully composed, etc.) digital models of existing and conceptual objects. Students will learn how to use modeling software (Solidworks and 3D Studio Max) and will also gain a basic understanding of the science behind the software. In addition to understanding the software, students will gain hands-on experience with topics closely related to this field including photography, lighting, 3D printing, and surface finishes.

PDes 3711 Toy Product Design
A-F only, 4 credit(s);
Instructor: Kudrowitz, Barry
Description: This class is an introduction to a product design process which includes observation, idea generation, model making, prototyping, presentation design, and getting user feedback. Students work in small interdisciplinary teams to take their own toy concepts from idea to working prototype with help from children and industry representatives. Throughout the class, students will learn various design skills such as design sketching, estimation, woodworking, rapid prototyping, and CAD modeling. Play is an important theme throughout the course. Lectures are like an interactive show and at the end of the class, students present their final prototypes at the "PLAYsentations" to the UMN community, children, and local industry.
Style: 35% Lecture, 50% Laboratory, 10% Small Group Activities, 5% Student Presentation.

PDes 4193 Directed Study in Product Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Kudrowitz, Barry
Description: Student may contact the instructor or department for information.

PDes 5704 Innovative Computer Modeling and Rendering for Design
A-F only, 3 credit(s); Senior or grad student Credit will not be granted if credit has been received for: PDES 3704;
Instructor: STAFF
Description: This class provides an overview of how to make high quality (well modeled, properly illuminated, carefully composed, etc.) digital models of existing and conceptual objects. Students will learn how to use modeling software (Solidworks and 3D Studio Max) and will also gain a basic understanding of the science behind the software. In addition to understanding the software, students will gain hands-on experience with topics closely related to this field including photography, lighting, 3D printing, and surface finishes.

PDes 5711 Toy Product Design
A-F only, 4 credit(s);
Instructor: Kudrowitz, Barry
Description: This class is an introduction to a product design process which includes observation, idea generation, model making, prototyping, presentation design, and getting user feedback. Students work in small interdisciplinary teams to take their own toy concepts from idea to working prototype with help from children and industry representatives. Throughout the class, students will learn various design skills such as design sketching, estimation, woodworking, rapid prototyping, and CAD modeling. Play is an important theme throughout the course. Lectures are like an interactive show and at the end of the class, students present their final prototypes at the "PLAYsentations" to the UMN community, children, and local industry.
Style: 35% Lecture, 50% Laboratory, 10% Small Group Activities, 5% Student Presentation.

PDes 8192 Readings in Product Design
A-F only, 1-3 credit(s), max credits 6;
Instructor: Kudrowitz, Barry
Description: Student may contact the instructor or department for information.

PDes 8193 Directed Study in Product Design
A-F only, 1-4 credit(s), max credits 8;
Instructor: Kudrowitz, Barry
Description: Student may contact the instructor or department for information.

Prosthodontics 9-450 MoosT

Pros 7110 Classic Prosthodontic Literature Review
A-F only, 2 credit(s);
Pros 7200 Advanced Clinical Prosthodontics I
A-F only, 5 credit(s);
Instructor: Conrad, Heather Joan
Description: Student may contact the instructor or department for information.

Psychology  N-218 Elliott Hall

Psy 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSTL 1281; Meets CLE req of Social Sciences
Instructor: Brothen, Thomas
Description: Psy 1001 is a 4-credit introduction to the scientific study of human behavior and a prerequisite for all other Psychology courses. The course explores how something as complex as human behavior can be studied scientifically. Students will be introduced to biological, social and environmental factors that influence human behavior; predictable ways in which humans behave, reason, remember and feel; some important ways in which people differ, and how psychologists 'know' what we know. Each week, students attend (either in person or online) three lectures given by University of Minnesota Faculty, teaching in their area of expertise. In addition, each week they participate in a discussion section led by a graduate student in Psychology during which they "do" psychology in active learning activities. As part of their discussion sections, students complete writing activities to apply what they are learning in psychology to their everyday lives.

Students in sections 002-019 attend live lectures and have one-hour discussion sections of 36 students. --Students in sections 021-30 view lectures on the internet at their convenience and have 75-minute discussion sections of 36 students. The first hour is the same activity as that done by sections 002-019. The extra 15-minutes provides time to review concepts and get questions answered. --Students in section 31 view lectures and complete discussion section activities online. --Students in section 33 view lectures online and have extra time in discussion sections for exam prep. --Exams are completed in a proctored computer lab in Elliott Hall.
Style: 75% Lecture, 25% Discussion.
Grading: 30% mid exam, 25% final exam, 20% quizzes, 15% written homework, 5% class participation, 5% other evaluation. Students can earn up to 5% extra credit by participating in research studies done by Department of Psychology researchers.
Exam Format: Multiple choice items administered in a University computer lab

Psy 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSTL 1281; Meets CLE req of Social Sciences
Instructor: Luciana, Monica Marie
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policy, fee, and financial aid restrictions. Psy 1001 (online) utilizes a computer-assisted version of the Personalized System of Instruction (PSI) model. Key principles of PSI are specified learning objectives and study aids, small units (for us, these units are the chapters in your textbook), frequent testing with feedback to students, and mastery learning. The materials I've created for this course do three things. First, by focusing your attention on the main points, they make sure you don't miss important information. Second, because feedback is essential to learning, the computer exercises give you feedback when it will do you the most good--right after you finish an exercise--so that you can use that feedback to improve your knowledge. Much of what you do can simply be called practice, but it is guided practice. This will take longer than just reading but the old saying is as true about psychology as anything else "practice makes perfect."
Style: Online
Grading: See attached syllabus
Exam Format: Online exam

Psy 1001 Introduction to Psychology
4 credit(s); Credit will not be granted if credit has been received for: PSTL 1281; Meets CLE req of Social Sciences
Instructor: Brothen, Thomas
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policy, fee, and financial aid restrictions. Psy 1001 (online) utilizes a computer-assisted version of the Personalized System of Instruction (PSI) model. Key principles of PSI are specified learning objectives and study aids, small units (for us, these units are the chapters in your textbook), frequent testing with feedback to students, and mastery learning. The materials I've created for this course do three things. First, by focusing your attention on the main points, they make sure you don't miss important information. Second, because feedback is essential to learning, the computer exercises give you feedback when it will do you the most good--right after you finish an exercise--so that you can use that feedback to improve your knowledge. Much of what you do can simply be called practice, but it is guided practice. This will take longer than just reading but the old saying is as true about psychology as anything else "practice makes perfect."
Style: Online
Grading: See attached syllabus
Psy 1001H Honors Introduction to Psychology
A-F only, 4 credit(s); Honors Credit will not be granted if credit has been received for: PSTL 1281; Meets CLE req of Social Sciences
Instructor: Bochsler, Tiana M
Description: Student may contact the instructor or department for information.

Psy 1511 Psychology
A-F only, 3 credit(s); Meets CLE req of Social Sciences
Instructor: Winchip, James E
Description: Student may contact the instructor or department for information.

Psy 1905 Freshman Seminar: The Psychology of Working Women
A-F only, 3 credit(s), max credits 6;
Instructor: Kling, Kristen C
Description: Student may contact the instructor or department for information.

Psy 3001V Honors Introduction to Research Methods
A-F only, 4 credit(s); [1001, [2081/3801 or equiv]] or dept 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: Nichol, Penny E
Description: Student may contact the instructor or department for information.

Psy 3001W Introduction to Research Methods
4 credit(s); [1001, [2801 or 3801 or equiv]] or dept consent
Credit will not be granted if credit has been received for: PSY 3005V; Meets CLE req of Writing Intensive
Instructor: Stellmack, Mark A
Description: PSY 3001W is an introduction to the basic concepts and procedures used to conduct and evaluate research in Psychology. Emphasis is placed on understanding traditional research methods, applying sound experimental techniques in order to produce interpretable results, and evaluating scientific claims. PSY 3001W is a writing intensive (WI) course. 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 3801 (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 3011 Introduction to Learning and Behavior
3 credit(s);
Instructor: Peterson, Gail Burton
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 course introduces you to the fundamental phenomena and principles of learning and behavior analysis by surveying the major theoretical and empirical approaches of the twentieth century. The material in this course will give you an appreciation of the current state of the field. While the course emphasizes basic academic and scientific issues, some of the practical applications of the theories and principles will also be examined.
Style: Online
Grading: See attached syllabus

Psy 3031 Introduction to Sensation and Perception
3 credit(s);
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
Psy 3061 Introduction to Biological Psychology
3 credit(s); 1001 or BIOL 1009 or NSci 1100
Credit will not be granted if credit has been received for: PSY 5061;
Instructor: Assistant
Description: Instructor: Jonathan Gewirtz. The course begins with brief overviews of the structure of the central nervous system, basic principles of nervous conduction and synaptic transmission, neurotransmitter systems, and basic techniques used in biological psychology research. We will then review current knowledge on the biological substrates of a range of behaviors and mental processes, including perception, memory, emotion, and sleep. The course will also examine the biological basis of a variety of neuropsychological disorders and forms of mental illness, including addiction, depression, and anxiety. By the end, you should be comfortable with the basic details of brain function and have gained a general understanding of the biology of behavior, mental states, and mental illness. You should also have begun to develop the skills to understand techniques and evaluate results of neurobiological and behavioral experiments.
Style: 80% Lecture, 10% Discussion, 10% Small Group Activities.
Grading: 75% mid exam, 25% final exam. 3 mid term exams

Psy 3061 Introduction to Biological Psychology
3 credit(s); 1001 or BIOL 1009 or NSci 1100
Credit will not be granted if credit has been received for: PSY 5061;
Instructor: Assistant
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policy, fee, and financial aid restrictions. Biological psychology is the study of behavior through the analysis of the nervous system and the study of the nervous system through analysis of behavior. The philosophical relationship between the "mind" and the brain has been debated for centuries. Discussions involve some of the most important concepts about human existence, such as "free will" and the existence of the soul. Here is the first (but certainly not the last) place that our own rather strongly held perspective will spill over into this study guide. The modern biological psychologist has found that our power to understand and explain behavior is greatest if we act under the hypothesis that the brain controls behavior. If we are to understand behavior, we must go to its source. Thus, to understand behavior, you must understand the brain. The pursuit of such understanding is a challenge, but it is an enormously tantalizing pursuit with great rewards.
Style: Online
Grading: See attached syllabus

Psy 3101 Introduction to Personality
3 credit(s); 1001
Credit will not be granted if credit has been received for: PSY 5101;
Instructor: Assistant
Description: Student may contact the instructor or department for information.

Psy 3121 History and Systems of Psychology
3 credit(s);
Instructor: Assistant
Description: Psy 3121 is taught as a fully online course but is designated as Primarily Online because students have the option of taking their final exam in the Elliott Hall Testing Center. The final exam will be available online at no cost to students (for Spring 2014) through Proctor U (see https://proctoru.com/howitworks.php for information). Each week students will complete online fill-in and M-C exercises and quizzes based on the textbook (57% of grade) and an online research assignment (24% of grade). The research assignment consists of finding information (primarily over the Internet on history websites) that supplements textbook material and posting a 200-400 word report on the Moodle course site. Student reports will be read and assessed by classmates and then graded by the instructor. A comprehensive M-C final exam will count for 19% of the grade.

Psy 3135 Introduction to Individual Differences
3 credit(s); [1001, [3801 or equiv]] or instr consent
Credit will not be granted if credit has been received for: PSY 5135;
Instructor: Assistant
Description: This course will introduce students to the study of individual differences in psychology, covering concepts and research on the topics of intelligence, personality, social attitudes, and vocational interests. It will include discussion of: 1) research methods and measurement of differences, 2) structure and distribution of the traits we use to describe individuals (including group differences), 3) what is known about the cause of differences (-nature vs. nurture?), 4) why we care about differences (i.e., the associated outcome variables and applications of this knowledge), and 5) how we might understand individual differences in an evolutionary sense.
Psy 3201 Introduction to Social Psychology
3 credit(s);
Instructor: Allen, Jill M
Description: Student may contact the instructor or department for information.

Psy 3206 Introduction to Health Psychology
3 credit(s);
Instructor: Wagner, Heather Marie
Description: Student may contact the instructor or department for information.

Psy 3301 Introduction to Cultural Psychology
A-F only, 3 credit(s);
Instructor: Lee, Joyce
Description: Student may contact the instructor or department for information.

Psy 3511 Introduction to Counseling Psychology
3 credit(s);
Instructor: Jordan, Kelly M
Description: Student may contact the instructor or department for information.

Psy 3511 Introduction to Counseling Psychology
3 credit(s);
Instructor: Kim, Oh Myo
Description: Student may contact the instructor or department for information.

Psy 3512 Principles of Abnormal Psychology
A-F only, 3 credit(s);
Instructor: Dunbar, Robert Lee
Description: Student may contact the instructor or department for information.

Psy 3604 Introduction to Abnormal Psychology
3 credit(s); 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. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. 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, although certainly not exhaustive, overview of each area.
Style: Online
Grading: See attached syllabus

Psy 3604 Introduction to Abnormal Psychology
3 credit(s); Credit will not be granted if credit has been received for: PSY 5604H;
Instructor: Poppe, Andrew B
Description: Student may contact the instructor or department for information.

Psy 3604 Introduction to Abnormal Psychology
3 credit(s); Credit will not be granted if credit has been received for: PSY 5604H;
Instructor: Sparks, Jordan C
Description: This course covers the domain of psychopathology as it is represented in the American Psychiatric Association’s Diagnostic and Statistical Manual of Mental Disorders (2013, 5th edition). A prerequisite for this course is Psy 1001. Textbook: Butcher, J., Hooley, J., & Mineka, S. (2013). Abnormal psychology (16th ed.). Boston: Pearson (Allyn & Bacon). Save money by getting the textbook in rental or electronic format!

Psy 3617 Introduction to Clinical Psychology
3 credit(s);
Instructor: Ofrat, Shani
Description: This course is meant to familiarize students with the field of clinical psychology, primarily as it exists in the
U.S. The course first briefly discusses the history of clinical psychology, the most widely accepted scientist practitioner approach to clinical psychology and the current status of the field of clinical psychology. The course covers clinical assessment, psychological interventions, and psychopathology and treatment research. This course may help students considering a career in clinical psychology and related professions and to decide whether this field appeals to them. Please make sure you have taken the prerequisite (Introduction to Psychology and Introduction to Abnormal Psychology) before signing up for this course.

**Psy 3666 Human Sexuality**
- 3 credit(s);
- **Instructor:** Althaus, Linde
- **Description:** Student may contact the instructor or department for information.

**Psy 3711 Psychology in the Workplace**
- 3 credit(s);
- **Instructor:** Wallace, Laura Nicole
- **Description:** Student may contact the instructor or department for information.

**Psy 3801 Introduction to Psychological Measurement and Data Analysis**
- 4 credit(s); High school algebra, [PSY 1001 or equiv]; intended for students who plan to major in psychology
- **Credit will not be granted if credit has been received for:** PSY 3801H
- **Instructor:** Stellmack, Mark A
- **Description:** PSY 3801 is an introduction to measurement and analysis of psychological data. The course covers topics in descriptive and inferential statistics that are typical of most introductory statistics courses: Frequency distributions, graphical data presentation, measures of central tendency and variability, probability, z-scores, t-tests, one-way ANOVA, two-way ANOVA, effect size, confidence intervals, non-parametric tests, correlation, and regression. Emphasis is placed on understanding the analysis techniques; thus computations will be done by hand and on calculators. No computer software will be used.
- **Style:** 75% Lecture, 15% Discussion, 10% Small Group Activities.
- **Grading:** 50% mid exam, 30% final exam, 10% quizzes, 10% written homework.

**Psy 3902W Major Project in Psychology**
- A-F only, 3 credit(s); Meets CLE req of Writing Intensive
- **Instructor:** Niccoli-Waller, Caprice
- **Description:** In this course, you will have the opportunity to review and reflect on some of the principles of psychological research and use this knowledge to explore a topic of your choice. You will complete a writing project, a psychological literature review, that is designed to let you focus on a topic of interest and to showcase your skills to digest, organize, synthesize, and communicate the psychological literature. You will attend 2 lectures at the start of the term and then work in weekly labs under graduate student assistance. During the first third of the course, you will complete weekly assignments in preparation for your writing project. You will also work in small groups and participate in a peer paper review. At the end of the term, you will present your work in a class poster session. For additional course details please refer to the following site: http://www.psych.umn.edu/undergrad/majorproject.htm
- **Style:** 20% Lecture, 70% Laboratory, 10% Student Presentation. Those selecting research lab or community projects will spend time outside of class engaged in these activities.
- **Grading:** 50% reports/papers, 25% quizzes, 25% written homework.

**Psy 3902W Major Project in Psychology**
- A-F only, 3 credit(s); Meets CLE req of Writing Intensive
- **Instructor:** Yost, Tyler A.
- **Description:** Student may contact the instructor or department for information.

**Psy 4012 Behavior Analysis and Autism**
- A-F only, 4 credit(s);
- **Instructor:** Larsson, Eric V.
- **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. Through weekly reading assignments, lectures and discussions, participants learn the principles and techniques currently employed to help young children with autism acquire functional language, appropriate social behavior, and general academic and living skills. Students also gain substantial experience working directly with autistic children in off-campus service-learning settings under the supervision of qualified professionals engaged in the application of applied behavior analysis (ABA) therapy. This field experience involves a MINIMUM of 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

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**Psy 4036 Perceptual Issues in Visual Impairment**  
3 credit(s);  
**Instructor:** Legge, Gordon Ernest  
**Description:** This course applies contemporary research findings to an improved understanding of the real-world abilities of visually disabled people. Topics will include prevalence of low-vision and blindness; three Dimensions of Vision Loss (acuity, contrast sensitivity, and visual field); auditory and tactile perception; brain-imaging studies; reading and low vision; Braille reading; synthetic speech; adaptive technology for reading; space perception; navigational technology (ranging from canes to GPS); driving with low vision; object recognition and face recognition; adaptive technology for computer access; and recreational activities. Each class session will be divided between lecture and hands-on lab exercises with state-of-the-art adaptive technology. The course is designed for a variety of audiences including psychology majors, students with vision disabilities, students with career interests in rehabilitation or eye care (special education, occupational therapy, physical therapy, pre-optometry, pre-med, or nursing), and for professionals with related interests such as special education. This course will be web enhanced. For an example see the Fall 2008 website.  
**Style:** 40% Lecture, 20% Discussion, 40% Laboratory.  
**Grading:** 20% mid exam, 20% final exam, 35% reports/papers, 25% laboratory evaluation.  
**Exam Format:** Short factual answers and short essays.

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**Psy 4501 Psychology of Women and Gender**  
3 credit(s);  
**Instructor:** Maki, Alex Ryan  
**Description:** Student may contact the instructor or department for information.

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**Psy 4994V Honors Research Practicum**  
A-F only, 4 credit(s); Meets CLE req of Writing Intensive  
**Instructor:** Fletcher, Charles R  
**Description:** Student may contact the instructor or department for information.

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**Psy 5014 Psychology of Human Learning and Memory**  
3 credit(s);  
**Instructor:** Koutstaal, 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.

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**Psy 5037 Psychology of Hearing**  
3 credit(s);  
**Instructor:** Viemeister, Neal F  
**Description:** Student may contact the instructor or department for information.

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**Psy 5054 Psychology of Language**  
3 credit(s);  
**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.
Psy 5064 Brain and Emotion
A-F only, 3 credit(s);
Instructor: Gewirtz, Jonathan C
Description: Student may contact the instructor or department for information.

Psy 5065 Functional Imaging: Hands-on Training
3 credit(s);
Instructor: Olman, Cheryl Annette
Description: Student may contact the instructor or department for information.

Psy 5101 Personality Psychology
3 credit(s); [3001W or equiv], [honors undergrad or grad student] Credit will not be granted if credit has been received for: PSY 3101;
Instructor: DeYoung, Colin G
Description: Student may contact the instructor or department for information.

Psy 5135 Psychology of Individual Differences
3 credit(s); [3001W or equiv] or [5862 or equiv] or instr consent Credit will not be granted if credit has been received for: PSY 3135;
Instructor: Lee, James J
Description: Student may contact the instructor or department for information.

Psy 5202 Attitudes and Social Behavior
3 credit(s);
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 5205 Applied Social Psychology
3 credit(s);
Instructor: Gonzales, Marti Hope
Description: Psychology 5205 is designed for advanced undergraduates in psychology and for graduate students in psychology and related disciplines. The tradition of applied or action research in social psychology is almost as old as the discipline, itself. Kurt Lewin - viewed by many as the "father" of American social psychology - was the first to advocate the use of social-psychological research and theory to conceive of and ameliorate social problems. Although interest in this specialty area waned for a number of years, in the last three decades there has been a resurgence of interest in the potential contributions of scientific social psychology to the understanding of and solution to "real world" problems. This course will provide for an overview of domains in which social-psychological theory and research have been applied outside the laboratory. We will begin the semester with a brief overview of distinctions between basic and applied social-
psychological research, and of problems and issues unique to applied work. Finally, the duration of the semester will be devoted to readings of a select sample of settings in which applied researchers have made contributions. These include, but may not be limited to: psychological and physical health, conservation and other environmental concerns, education, consumer behavior, television and the mass media, prejudice and intergroup relations, law and the criminal justice system, and public policy.

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

**Grading:** 33% mid exam, 33% final exam, 33% reports/papers.

**Exam Format:** Multiple-choice and short essay

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**Psy 5501 Vocational and Occupational Health Psychology**

3 credit(s);

Instructor: Greer, Christiaan Sean

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

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**Psy 5708 Organizational Psychology**

3 credit(s); [3001W, 3711] or psy grad 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.

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**Psy 5865 Advanced Psychological and Educational Measurement**

4 credit(s); 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.

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**Psy 5960 Topics in Psychology: Prejudice and Diversity**

3 credit(s), max credits 8;

Instructor: Allen, Jill M

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

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**Psy 5960 Topics in Psychology: Neuroscience, Philosophy, & Ethics**

3 credit(s), max credits 8;

Instructor: Lissek, Shmuel

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

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**Psy 5993 Research Laboratory in Psychology**

3 credit(s), max credits 18, 6 completions allowed;

Instructor: Iacono, William George

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

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**Psy 5993 Research Laboratory in Psychology**

3 credit(s), max credits 18, 6 completions allowed;

Instructor: Kersten, Daniel John

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

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**Psy 5993 Research Laboratory in Psychology**

3 credit(s), max credits 18, 6 completions allowed;

Instructor: Frazier, Patricia Ann

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

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**Psy 5993 Research Laboratory in Psychology**

3 credit(s), max credits 18, 6 completions allowed;

Instructor: Simpson, Jeffrey A

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

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**Psy 5993 Research Laboratory in Psychology**

3 credit(s), max credits 18, 6 completions allowed;

Instructor: Marsolek, Chad James

Description: Student may contact the instructor or department for information.
Psy 5993 Research Laboratory in Psychology  
3 credit(s), max credits 18, 6 completions allowed;  
Instructor: Waller, Niels Gordon  
Description: Student may contact the instructor or department for information.

Psy 5993 Research Laboratory in Psychology  
3 credit(s), max credits 18, 6 completions allowed;  
Instructor: Rothman, Alexander John  
Description: Student may contact the instructor or department for information.

Psy 5993 Research Laboratory in Psychology  
3 credit(s), max credits 18, 6 completions allowed;  
Instructor: Luciana, Monica Marie  
Description: Student may contact the instructor or department for information.

Psy 5993 Research Laboratory in Psychology  
3 credit(s), max credits 18, 6 completions allowed;  
Instructor: Thomas, Mark John  
Description: Student may contact the instructor or department for information.

Psy 5993 Research Laboratory in Psychology  
3 credit(s), max credits 18, 6 completions allowed;  
Instructor: Kuncel, Nathan Richard  
Description: Student may contact the instructor or department for information.

Psy 5993 Research Laboratory in Psychology  
3 credit(s), max credits 18, 6 completions allowed;  
Instructor: MacDonald III, Angus  
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 at least a 3.5 GPA; and must have taken or be concurrently enrolled in the following courses as prerequisites: PSY 1001, PSY 3005W, & PSY 3604. Responsibilities & Expectations: Attend weekly laboratory meetings (including presenting research findings as indicated); attend bi-weekly journal club meetings (including leading one discussion); Complete work as in the laboratory in the amount of 3 hrs per credit per week (generally 2 mornings or afternoons per week); and write an APA-style research lab report (9-15 pp). Duties and activities include but are not limited to: running participants in research studies, data management & analysis, active participation in lab meetings and journal club. Grades will be based on: 1) laboratory attendance and fulfillment of responsibilities; 2) lab meeting attendance (with exceptions to be arranged with the instructor); 3) journal club presentation; 4) final lab report.

Psy 5993 Research Laboratory in Psychology  
3 credit(s), max credits 18, 6 completions allowed;  
Instructor: Kling, Kristen 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;  
Instructor: Legge, Gordon Ernest  
Description: Student may contact the instructor or department for information.

Psy 5993 Research Laboratory in Psychology  
3 credit(s), max credits 18, 6 completions allowed;  
Instructor: Viemeister, Neal F  
Description: This course is an introduction to research in human auditory perception intended for undergraduate and graduate students. The format is a combination of lecture, seminar, and lab. Students will participate in lectures and discussions of principles of auditory perception and research design in psychoacoustics. Students will design and perform
an experiment that may be used to prepare a manuscript to satisfy PSY 3902W requirements. The experiments will be closely related to the active research being conducted in the Psychoacoustics Lab (http://www.psych.umn.edu/psylabs/acoustic/). The major goal of this course is to give students an opportunity to engage in hands-on research and to acquire expertise in the various dimensions of research, including design, data collection, data analysis, laboratory skills, background scholarship, and scientific communication. Among the students' requirements for this course: attend and participate in discussions, prepare an oral presentation of the student's research, and prepare a proposal for future research based on the student's research or other recent, published research in psychoacoustics. Although not required, it is preferred that students have taken PSY 3001W (Research Methods), PSY 3031 (Sensation and Perception), PSY 3051 (Cognitive), and/or PSY 3061 (Biological Psychology) and that students are comfortable with math and quantitative analysis.

*Style:* 20% Lecture, 40% Discussion, 30% Laboratory, 10% Student Presentation.

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**Psy 5993 Research Laboratory in Psychology**

- 3 credit(s), max credits 18, 6 completions allowed;
- **Instructor:** Borgida, Eugene
- **Description:** Student may contact the instructor or department for information.

**Psy 5993 Research Laboratory in Psychology**

- 3 credit(s), max credits 18, 6 completions allowed;
- **Instructor:** Overmier, J. Bruce
- **Description:** Student may contact the instructor or department for information.

**Psy 5993 Research Laboratory in Psychology**

- 3 credit(s), max credits 18, 6 completions allowed;
- **Instructor:** Ones, Deniz S
- **Description:** Student may contact the instructor or department for information.

**Psy 5993 Research Laboratory in Psychology**

- 3 credit(s), max credits 18, 6 completions allowed;
- **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;
- **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;
- **Instructor:** Gonzalez, Marti Hope
- **Description:** Student may contact the instructor or department for information.

**Psy 5993 Research Laboratory in Psychology**

- 3 credit(s), max credits 18, 6 completions allowed;
- **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;
- **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;
- **Instructor:** He, Sheng
Psy 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed;
Instructor: Krueger, 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;
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;
Instructor: Gewirtz, Abigail
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;
Instructor: Lee, Richard M
Description: This directed research is designed for undergraduate and graduate students interested in the role of race, ethnicity, and culture in the development and well-being of individuals and families from diverse racial and ethnic backgrounds with a particular focus on adopted individuals and families and children of immigrant parents.
Style: 20% Discussion, 80% Laboratory. Students are expected to attend a weekly lab group meeting and reading group.

Psy 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed;
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;
Instructor: Allen, Jill M
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;
Instructor: Koutstaal, Wilma
Description: Student may contact the instructor or department for information.

Psy 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed;
Instructor: Klimes-Dougan, Bonnie
Description: Students will become involved in applied research experiences that involve work with depressed adolescents.
Style: 10% Lecture, 90% Laboratory.
Grading: 15% reports/papers, 10% class participation, 75% laboratory evaluation.

Psy 5993 Research Laboratory in Psychology
3 credit(s), max credits 18, 6 completions allowed;
Instructor: Oxenham, Andrew J.
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;
Instructor: Jiang, Yuhong Vanessa
Description: This is a research laboratory class with a focus on attention and memory research. Students are expected to work 8 hours in Prof. Jiang's laboratory in chunks of 2 half days or 1 whole day. There will also be a one-hour lab meeting. During this time students will engage in active laboratory research. Because of the significant amount of supervision involved, this class has limited enrollment with the permission of the instructor. It is expected that no more than 5 students
will be permitted to enroll in this class in Fall and Spring semesters combined. Grading will be given on the basis of attendance, laboratory performance, and a 5-page final paper. Students interested in the course should email Prof. Jiang (jiang166@umn.edu), attach a CV including GPA, and a statement about why you wish to enroll in this research laboratory course.

**Style:** 10% Discussion, 80% Laboratory, 10% Small Group Activities.

**Grading:** 15% reports/papers, 70% attendance, 15% laboratory evaluation.

**Psy 5993 Research Laboratory in Psychology**
- 3 credit(s), max credits 18, 6 completions allowed;
- **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;
- **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;
- **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;
- **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 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 5993 Research Laboratory in Psychology**
- 3 credit(s), max credits 18, 6 completions allowed;
- **Instructor:** Lissek, Shmuel
- **Description:** Student may contact the instructor or department for information.

**Psy 8036 Topics in Computational Vision**
- 3 credit(s), max credits 12, 4 completions allowed;
- **Instructor:** Kersten, Daniel John
- **Description:** Student may contact the instructor or department for information.

**Psy 8206 Proseminar in Social Psychology**
- S-N only, 1 credit(s), max credits 5, 5 completions allowed;
- **Instructor:** Simpson, Jeffry A
- **Description:** Student may contact the instructor or department for information.

**Psy 8209 Research Methods in Social Psychology**
- A-F only, 3 credit(s);
- **Instructor:** Rothman, Alexander John
- **Description:** Student may contact the instructor or department for information.

**Psy 8212 Proseminar in Political Psychology II**
- S-N only, 1 credit(s); Political Psychology grad minor Credit will not be granted if credit has been received for: POL
Psy 8502 Assessment in Counseling Psychology
3 credit(s);
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;
Instructor: Hansen, Jo-Ida C
Description: Student may contact the instructor or department for information.

Psy 8515 University Counseling Practicum II
S-N only, 4-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Beckham-Chasnoff, Sarra
Description: Student may contact the instructor or department for information.

Psy 8541 Multicultural Psychology
3 credit(s);
Instructor: Syed, Moin
Description: Student may contact the instructor or department for information.

Psy 8544 Vocational and Occupational Health Psychology Research
3 credit(s);
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, 1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Frazier, Patricia Ann
Description: Student may contact the instructor or department for information.

Psy 8566 Counseling Psychology Advanced Practicum II: Career Counseling and Assessment Clinic
S-N only, 1-6 credit(s), max credits 6, 1 completion allowed;
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;
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);
Instructor: Grove, William Merrill
Description: Student may contact the instructor or department for information.

Psy 8612 Assessment II
A-F only, 5 credit(s);
Instructor: Krueger, Robert
Description: Student may contact the instructor or department for information.

Psy 8620 Clinical Psychology Practicum
S-N only, 1-6 credit(s), max credits 36, 8 completions allowed;
Instructor: MacDonald III, Angus
Description: Student may contact the instructor or department for information.
Psy 8701 Seminar in Industrial and Organizational Psychology I
A-F only, 3 credit(s);
Instructor: Kuncel, Nathan Richard
Description: Student may contact the instructor or department for information.

Psy 8815 Analysis of Psychological Data
4 credit(s);
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;
Instructor: Waller, Niels Gordon
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;
Instructor: Wang, Chun
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;
Instructor: Gill, Jefferson Morris
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;
Instructor: McGue, Matt
Description: Student may contact the instructor or department for information.

Psy 8960 Graduate Seminar in Psychology
1-4 credit(s), max credits 36, 9 completions allowed;
Instructor: Waller, Niels Gordon
Description: Student may contact the instructor or department for information.

Psy 8960 Graduate Seminar in Psychology
1-4 credit(s), max credits 36, 9 completions allowed;
Instructor: Lee, James J
Description: Student may contact the instructor or department for information.

Public Affairs 225 HHHCtr

PA 1005 Great Debates of Our Time: U.S. Policy and Politics
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Jacobs, Larry
Description: What are the powers of the president to make foreign policy and to take America to war? 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 seven presidencies over the past sixty years (three Republican and four Democratic including President Barack Obama) as well as constitutional history. Students will simulate key presidential decisions. Grades are based on class participation, short papers and a final examination.
Style: 40% Lecture, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers.
Grading: 35% final exam, 35% reports/papers, 15% special projects, 15% attendance.

PA 1401 Public Affairs: Community Organizing Skills for Public Action
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Donovan, Dennis Michael
Description: *meets University of Minnesota Liberal Education requirement for Citizenship/Public Ethics Theme -- Understand the differences in effectiveness between mobilizing (what is used in political campaigns and protest politics)
and community organizing (used to solve problems in the broader community) -- Identify critical elements of broad-based organizing and learn to build diverse public relationships through one-to-one meetings -- Reflect on your place in the world and acquire greater clarity about your self-interest in order to act powerfully toward your goals -- Participate in engaged learning -- Develop your public narrative and an organizing plan to take action on an public issue -- Learn about the American Commonwealth Partnership and with a team, produce a public work project to address a public issue. --This course will help students acquire skills for effective citizenship and life-long learning by opening the door to new civic possibilities in their own work and careers

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Christopherson, Christen Ruth
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Marshall, Scott Ethan
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Soria, Krista Marie
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: McFadden, Colin Hamilton
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: LeBlanc, Scott Paul
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Thomas-Card, Traci Lee
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Bergner, Rebecca Beatrice
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Novack, Lisa Marie
Description: Student may contact the instructor or department for information.
Writing Intensive
Instructor: Marcy, Ben
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Rodrigue, Rachel
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Taylor Jr, Leonard
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Skrebes, Robyn Jane
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Stafford, Jeff
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Heineman, Colby
Description: Student may contact the instructor or department for information.

PA 1961W Personal Leadership in the University
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 1301W; Meets CLE req of Writing Intensive
Instructor: Routman, Sarah Lynn
Description: This introductory level course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of effective leadership and learn about the importance of personal development.

PA 3003 Nonprofit and Public Financial Management
A-F only, 3 credit(s);
Instructor: Gunyou, John
Description: This course is designed to equip current and future nonprofit and public managers with the practical financial management tools and analytical techniques they need to be successful in their careers. Course work is very applications oriented, with case studies and real-world exercises used to provide managers with basic concepts and collaborative methods for team project and budget planning, program analysis, interpreting financial reports, identifying and resolving organizational performance issues. A technology-facilitated, flexible learning model provides students with the hands-on participatory tools they need to compete in the new economy. Students complete convenient online tutorials at their convenience. Class time is dedicated to direct interaction with the instructor as students apply those lessons by solving practical case studies in a small team setting. Notes from former students: "I understand the material better in this class than in any other class that I have taken at the U. The flipped version is more effective at making me understand the material than the traditional lecture method. The fact that the professors are close by when doing the assignments is very helpful." "This weekend I received the Annual Report for a non-profit I've been working with for the past few years. I'm proud to say I was actually able to look at the financial statements, and gain a significant amount of knowledge about the organization. I appreciate that I am actually transferring the information I learned to my daily life." "This was truly one of my most enjoyable classes this year!" "I took your non-profit budgeting class, and it convinced me to look into the non-profit sector for career options." "I was working on a grant recently, and pulled out some of my budgets from class to help me format them properly. I just wanted to say thanks for teaching me very helpful budgeting tips that I've already put to good
Style: 5% Lecture, 10% Discussion, 50% Small Group Activities, 5% Student Presentation, 30% Web Based. In this flipped classroom, students compete online tutorials at their convenience. These lessons are reinforced in class with exercises done in small teams. Tutorial assistance is also available as students take responsibility for their learning.

Grading: 15% mid exam, 20% final exam, 20% special projects, 30% written homework, 15% class participation. Participation points are determined by timely completion of online lessons and class attendance, where students collaboratively complete case studies, working in small teams.

Exam Format: The midterm and final exams involve analysis of actual budgets and financial reports, with problems similar to the graded assignments. Students are permitted to use one page of whatever notes and formulas they wish to bring for the exams.

PA 3961 Leadership, You, and Your Community
A-F only, 3 credit(s); PA 1961W or CFAN 3480 or CFAN 1101 or EDPA 1301W or EDPA 1302 or OLPD 1301W or OLPD 1302
Credit will not be granted if credit has been received for: OLPD 3302;
Instructor: Marcy, Ben
Description: Student may contact the instructor or department for information.

PA 3961 Leadership, You, and Your Community
A-F only, 3 credit(s); PA 1961W or CFAN 3480 or CFAN 1101 or EDPA 1301W or EDPA 1302 or OLPD 1301W or OLPD 1302
Credit will not be granted if credit has been received for: OLPD 3302;
Instructor: Skrebes, Robyn Jane
Description: Student may contact the instructor or department for information.

PA 3961 Leadership, You, and Your Community
A-F only, 3 credit(s); PA 1961W or CFAN 3480 or CFAN 1101 or EDPA 1301W or EDPA 1302 or OLPD 1301W or OLPD 1302
Credit will not be granted if credit has been received for: OLPD 3302;
Instructor: Harris, Margaret McKenny
Description: Student may contact the instructor or department for information.

PA 3971 Leadership Minor: Field Experience
A-F only, 3 credit(s); PA 3961 or 3961W or EDPA 3302 or EDPA 3302W or OLPD 3302
Credit will not be granted if credit has been received for: OLPD 3306;
Instructor: Ve Lure Roholt, Christine Elizabeth
Description: Core leadership course information applied to leadership situations. Settings include community or educational organizations, corporations, University student organizations, and formal internships. Students identify two leadership objectives from among personal, interpersonal, and organizational development. Experiential learning, individual presentations, group discussions, critical reflection/writing.

PA 3971 Leadership Minor: Field Experience
A-F only, 3 credit(s); PA 3961 or 3961W or EDPA 3302 or EDPA 3302W or OLPD 3302
Credit will not be granted if credit has been received for: OLPD 3306;
Instructor: Frazzini, Ronald Michael
Description: Student may contact the instructor or department for information.

PA 3990 General Topics in Public Policy: Introduction to Public Policy
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Saunoi-Sandgren, Emily O
Description: This course will offer an introduction the study of public policy in the United States. It presents a foundation for the understanding of the what, who, where, and how of public policy making. These questions are explored from different perspectives while delving into questions such as: What is public policy good for? Who decides policy priorities? What effect does public policy actually have in solving public problems?
Grading: 30% reports/papers, 35% special projects, 20% class participation, 15% other evaluation.

PA 4101 Nonprofit Management and Governance
3 credit(s);
Instructor: Classen, Julia E  
Description:  

**PA 4290 Topics in Planning: Mayor 101**  
3 credit(s), max credits 9, 3 completions allowed;  
Instructor: Rybak, Raymond "R.T." Thomas  
Description:  

**PA 4961W Leadership for Global Citizenship**  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Werner, Linnette  
Description: This course, the capstone academic experience in the Undergraduate Leadership Minor sequence, is designed to focus student learning that has been developed in earlier leadership courses. Leadership theory, community building, social change, and interdisciplinary approaches to complex global issues will be the main components in this course. Students will be expected to demonstrate skill in analysis of pertinent literature, write with purpose and clarity, appreciate intense internships, and lead thoughtful group study. In this course, students will finalize portfolios and submit other scholarly products to demonstrate a mature understanding of personal and positional leadership in a changing global context.  

**PA 4961W Leadership for Global Citizenship**  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Ve Lure Roholt, Christine Elizabeth  
Description: Student may contact the instructor or department for information.  

**PA 4961W Leadership for Global Citizenship**  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Asmundson, Aaron R  
Description: This course, the capstone academic experience in the Undergraduate Leadership Minor sequence, is designed to focus student learning that has been developed in earlier leadership courses. Leadership theory, community building, social change, and interdisciplinary approaches to complex global issues will be the main components in this course. Students will be expected to demonstrate skill in analysis of pertinent literature, write with purpose and clarity, appreciate intense internships, and lead thoughtful group study. In this course, students will finalize portfolios and submit other scholarly products to demonstrate a mature understanding of personal and positional leadership in a changing global context.  

**PA 4961W Leadership for Global Citizenship**  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Digby PhD, Cynthia LB  
Description: Student may contact the instructor or department for information.  

**PA 4971 Directed Study, Leadership Minor**  
OPT No Aud, 1-4 credit(s), max credits 15, 5 completions allowed;  
Instructor: Soria, Krista Marie  
Description: Student may contact the instructor or department for information.  

**PA 5002 Introduction to Policy Analysis**  
A-F only, 1.5 credit(s);  
Instructor: Husbands Fealing, Kaye  
Description:  

**PA 5003 Introduction to Financial Analysis and Management**  
A-F only, 1.5 credit(s);  
Instructor: Kiedrowski, P. Jay  
Description: This is an introductory course to budgeting and financial analysis in the context of public and nonprofit organizations. The primary learning objective of this course is how to obtain accurate financial information to make sound management decisions through the analysis of financial documents such as budgets and financial statements. The processes of producing such documents will be introduced but are not the focus of this course. Conceptual frameworks and analytical techniques will be emphasized and applied to analyze real-world financial problems. Lectures, discussions, and cases/examples from nonprofit and public sector organizations will be utilized.  
Style: 50% Lecture, 20% Discussion, 10% Small Group Activities, 10% Student Presentation, 10% Demonstration.  
Grading: 30% mid exam, 30% final exam, 25% reports/papers, 15% class participation.
PA 5012 The Politics of Public Affairs  
A-F only, 3 credit(s);  
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 5012 The Politics of Public Affairs  
A-F only, 3 credit(s);  
Instructor: Marchetti, Kathleen Maeve  
Description: The critical issues addressed in public policymaking involve political and moral choices, along with analytic and administrative aspects. What is desirable from the perspective of policy analysis and policy expertise is not always what is legislatively feasible in the face of established institutions and multiple and competing interests and values. The Politics of Public Affairs a course in which these choices?and the core values of public service and good governance informing them?are confronted directly. The purpose of this course is to illuminate the obstacles and opportunities that shape the development of public policy in the United States. Our attention to the values and choices central in policymaking will proceed in three stages. The initial weeks comprise an overview of public policy in the contemporary U.S. The second segment takes up the making of public policy, addressing how complex systems of governance actually function. Along the way we?ll trace some of the principal tensions in democratic public policymaking. The third segment addresses policy-making themes and processes in terms of several specific policy areas.  
Style: 60% Lecture, 10% Film/Video, 30% Discussion.  
Grading: 20% mid exam, 20% final exam, 45% reports/papers, 15% class participation.

PA 5022 Economics For Policy Analysis and Planning II: Macroeconomics for Public Policy  
A-F only, 0 credit(s), max credits 4.5, 3 completions allowed;  
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: Economics of Social Insurance Programs  
A-F only, 3 credit(s), max credits 4.5, 3 completions allowed;  
Instructor: Hanratty, Maria J  
Description:

PA 5022 Economics For Policy Analysis and Planning II: Cost-Benefit Analysis  
A-F only, 1.5 credit(s), max credits 4.5, 3 completions allowed;  
Instructor: Temple, Judy  
Description: Purpose: This class introduces students to methods used in cost-benefit analysis, the leading evidenced-based method for guiding decisions about whether a government program or policy improves the well-being of society. For Humphrey students, this course fulfills part of the economics core requirement (PA 5021-5022). For students who have already fulfilled that requirement, this course can be used to satisfy requirements in the Advanced Policy Analysis concentration. The syllabus shown in this course guide is from a previous semester.

PA 5022 Economics For Policy Analysis and Planning II: Regulatory Reform and Innovation  
A-F only, 1.5 credit(s), max credits 4.5, 3 completions allowed;  
Instructor: Husbands Fealing, Kaye  
Description:

PA 5022 Economics For Policy Analysis and Planning II: Science-to-Action for the Common Good  
A-F only, 1.5 credit(s), max credits 4.5, 3 completions allowed;  
Instructor: Ramaswami, Anu  
Description: All Paths for Translating Science to Action for the Common Good Translating science to action has occurred in all societies, but is more complicated in technological societies when multiple aspirations (economy, environment, health, climate-risks) are at play, where people are removed from the natural system, and, where technological innovation is rapid but often not well-understood in terms of impact. As a result, solving ?grand challenges? of environmental sustainability, food security, climate-resilience and governance of emerging technologies requires integrating multiple pathways and multiple sectors for translating science to action. The multiple pathways refer to regulations, voluntary programs, cooperative approaches, entrepreneurial and market-based solutions. The various pathways require multi-sector collaboration between academia, governments, for-profit and NGO sectors, all of whom play different roles in translating science to action. Further, communities themselves hold vast local informal knowledge?often untapped - that is essential for place-based problem-solving. Most importantly, professionals no longer work within or with only one sector throughout their career, and are now expected to have the knowledge of the multiple pathways and sectors described above. Given
these needs, this course is envisioned as a first introductory course for translating science to action for the common good, offered to students, researchers and professionals who are seeking high social impact. Course Objectives: This course will: - Introduce students to the available theories and frameworks that describe some of the strengths and weaknesses, and best practices in working on grand challenge challenges across communities, businesses, governments, academia and NGO sectors. - Using the example of sustainable city development, different pathways will be delineated as well as the need for using a portfolio approach incorporating multiple pathways, and multiple sectors. - Experts from the different sectors will share their experiences describing the culture as well as practice in these different sectors. - Students and faculty will participate in the course in a seminar format with reflections after each week, and a synthesis paper addressing pathways and sectors for a ?challenge? problem defined by the student. Grading: The course is a blend of a seminar plus project-based course. Grading will be based on framing relevant and creative questions (25%), engaging in dialogue with the weekly speakers and with the class-cohort (25%), and, on translating learning from the course into a real world project (chosen by the student) that will be due at the end of the course (50%).

PA 5032 Intermediate Regression Analysis
A-F only, 2 credit(s);
Instructor: Kudrlé, Robert T
Description: This course is designed to help you read, understand, interpret, use and evaluate empirical work. To advance that goal, attention is concentrated on one of the main techniques used by social scientists and public policy researchers: regression analysis. You will learn the assumptions that underlie both bivariate and multivariate regression. You will learn how to perform regressions using STATA, perhaps the most widely used computer program in advanced social science research. Most important of all, you will learn to spot violations of the assumptions that give regression results desirable qualities and how to take the corrective measures necessary to improve your ability to make valid inferences.

PA 5033 Multivariate Techniques
A-F only, 2 credit(s);
Instructor: Kleiner, Morris M
Description: The class examines how statistical approaches can be used to examine public policies. This course is designed to help you read, understand, interpret, use and evaluate empirical work used in the social sciences and by policy analysts. To advance that goal, the class concentrates its attention on several quantitative techniques used by public policy researchers and advisers to policy makers.

PA 5035 Survey Research and Data Collection
A-F only, 1.5 credit(s);
Instructor: Daves, Robert P
Description: This course is a quick but comprehensive overview of the most common qualitative and quantitative applied social science research methods. The course spends the most time on survey research and how students can use it in their future work. At the end of the course, students should be familiar enough with how quantitative and qualitative research methods work to help them set research objectives, choose appropriate research techniques to meet those objectives, choose research vendors, evaluate vendors' work, and use the reports that vendors supply. The course attends mainly to the survey research process and we'll spend time on the topic of polling; but also explores the major qualitative and quantitative methods of scientific social inquiry. We also will cover the basics of measurement theory, opinion formation, and research ethics. We'll also be using in-class discussion groups to review readings, and do work in small groups to develop objectives for a survey research project, design the sample, construct a questionnaire, and gather, enter and tabulate data. The small groups will present their project and its findings to the class.

PA 5039 Analytics for Leaders II
A-F only, 3 credit(s);
Instructor: Le, Thanh Trung
Description:

PA 5041 Qualitative Methods for Policy Analysts
A-F only, 4 credit(s);
Instructor: Friedemann-Sanchez, Greta
Description:

PA 5042 Urban and Regional Economics
A-F only, 1.5 credit(s);
Instructor: Cao, Jason
Description: This course is to apply the principles of microeconomics and macroeconomics to the analysis of urban/regional economic issues and problems. By the end of the course, students should be able to ? Provide an economics-based explanation for why cities exist and what causes them to grow and shrink; ? Evaluate the importance of major economic forces in the development of cities; ? Conduct economic analysis of an urban area and its land markets; ?
Understand the brief history of planning in different major areas (land use, transportation, housing and environment) and use economic tools to analyze the impact of planning and policy in the areas; and ? Recognize the role of local government and analyze how residents respond to taxes and grants.

**PA 5043 Economic and Demographic Data Analysis**  
A-F only, 2 credit(s);  
**Instructor:** Assaad, Ragui A  
**Description:** Student may contact the instructor or department for information.

**PA 5043 Economic and Demographic Data Analysis**  
A-F only, 2 credit(s);  
**Instructor:** Assaad, Ragui A  
**Description:** The objective of this course is to familiarize the student with a variety of economic and demographic data analysis techniques for planning practitioners. The goal is not to develop expertise in a particular method, but rather to provide familiarity with the most important data sources, a conceptual understanding of a range of methods and hands-on experience in applying these methods.

**PA 5052 Cohort Leadership II**  
A-F only, 2 credit(s);  
**Instructor:** Zentner Bacig, Karen  
**Description:**

**PA 5054 Cohort Policy Analysis II**  
A-F only, 2 credit(s);  
**Instructor:** Zentner Bacig, Karen  
**Description:** Student may contact the instructor or department for information.

**PA 5056 Cohort Quantitative Analytics II**  
A-F only, 2 credit(s);  
**Instructor:** Le, Thanh Trung  
**Description:** Student may contact the instructor or department for information.

**PA 5080 Capstone Preparation Workshop**  
S-N only, 1 credit(s);  
**Instructor:** Borton, Kimberly Joy  
**Description:**

**PA 5101 Management and Governance of Nonprofit Organizations**  
3 credit(s);  
**Instructor:** Stone, Melissa M  
**Description:** This course focuses on distinctive features of managing and governing nonprofit organizations and draws on current theories, concepts and real world examples to explore particular management and governance challenges. For example, these may include tensions between pursuing the nonprofit’s historical mission or responding to dynamic funding markets; the need to be autonomous and avoid mission drift while depending in large part on outside sources of financial support; and questions concerning who does the leading/managing and who does the governing because of the part-time, volunteer nature of boards.  
**Style:** 25% Lecture, 50% Discussion, 15% Small Group Activities, 10% Guest Speakers.  
**Grading:** 80% reports/papers, 20% class participation.

**PA 5105 Integrative Leadership Seminar**  
OPT No Aud, 3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: MGMT 6402;  
**Instructor:** White, Katie Marie  
**Description:** This is an interdisciplinary, 3-credit seminar led by co-instructors from multiple schools of the university. Students will: a) learn to recognize and diagnose integrative leadership challenges and opportunities; b) build their own capacities to practice integrative leadership through group work in individualized peer-to-peer coaching in diverse teams and through being exposed to a range of boundary work practices; and c) gain better knowledge of the leadership contexts within their own profession and in other sectors. We emphasize contexts for integrative leadership at five basic levels: within individuals, within and across groups, within and across organizations, within and across sectors, and at the societal scale. Learning occurs through reading foundational materials, personal leadership coaching, engaging extensively with examples from guest speakers and case materials, developing a group capstone project on integrative leadership, and
iteratively co-producing an understanding of what integrative leadership is. This course is sponsored by four departments.

If PA 5105 shows as full, please check for space under the other departments - MGMT 6402, OLPD 6402, and PubH 6702. They are all for the same class, with the same instructors, meeting at the same time. Every section in all four schools must be filled before any over-ride permission numbers are issued. If all class sections are full, please contact Merrie Benasutti at the Center for Integrative Leadership (624-8300) for a permission number.

Style: 15% Lecture, 20% Discussion, 25% Small Group Activities, 10% Student Presentation, 15% Guest Speakers, 15% Web Based.

Grading: 30% reports/papers, 30% reflection paper, 20% class participation, 20% other evaluation. Participation in class-based learning and discussion - 20% Biweekly reading notes and biweekly reflection notes - 30% Team case study project research, presentation, and report - 30% Integrative leadership peer-to-peer coaching: 20%

PA 5106 Government, Ethics and the Public Will
OPT No Aud, 1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Stone, Paul Clois
Description: Ethics is the oldest and arguably the central topic of Western philosophy. Since Aristotle all serious considerations of effective government and types of prescribed behavior within free and just societies have taken into account ethical discussions, sensibilities and historical perspectives. Ethics and morals are not the same. However, ethical approaches that do not rely on moral sensibilities have little merit in the context of public life, and even less merit in the curricula of schools of public affairs. An ethical sensibility based on the understanding of moral ideals is as important in the framing and exercise of government as it is in the practice of medicine, law or business. This 3-credit course is designed to give students a combined historical and philosophical perspective on ethics as applied routinely to governing and the expectations of the public. The readings pose questions relating not only to ethical ideals but to indifference, ignorance and cynicism as well. Discussions in class are geared to the readings and, conversely, the readings may be adjusted slightly in order to meet topics raised in discussion. The reading load is somewhat heavy but is enjoyable as well. Students should be forewarned that while the instructor wishes to promote a keen publicly understood ethical awareness it is also true that he entertains no illusions about the public demand for high ethical standards and practices in government. In many cases the public simply does not care about the subject. That is both a reality and a frightening reality. There are two major writing assignments of approximately eight pages, a short initial writing assignment of two to three pages and a short hour exam based on readings during the first two thirds of the class. Although Government, Ethics and the Public Will is a 5000 level, graduate course, undergraduates are welcome with instructor permission.

PA 5111 Financing Public and Nonprofit Organizations
OPT No Aud, 3 credit(s);
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);
Instructor: Penny, Timothy Joe
Description: The United States government and many states and local governments have demonstrated ways to fail at public budgeting. This course examines the political forces and the budget processes that can contribute to gridlock, smooth sailing or something in between. Former Congressman Tim Penny and former Minnesota state senator Steve Kelley use their experience and current observations to lead students through the politics of public budgeting and ideas for reform of the process and the substance of public budgets drawn from U.S. and international sources. Most of the readings are current documents that explore problems and solutions to today's public budgeting challenges. Class sessions typically involve a mix of full class or small group discussion with an occasional lecture. Evaluation is based on mid-term and final papers that analyze current budget issues and on two group presentations.

PA 5144 Social Entrepreneurship
A-F only, 3 credit(s);
Instructor: Bielefeld, Wolfgang Hor
Description: Introduction to field of social entrepreneurship. Prepares current/future managers/leaders to create, develop, lead socially entrepreneurial organizations/initiatives
Style: 30% Lecture, 30% Discussion, 20% Small Group Activities, 20% Student Presentation. Students will work in project teams to develop a social venture proposal.
Grading: 45% reports/papers, 35% special projects, 10% in-class presentation, 10% class participation.
PA 5180 Topics in Executive Leadership: Public Safety Leadership II
A-F only, 3 credit(s), max credits 6;
Instructor: Gerdes,Kevin Scott
Description: This Public Safety Leadership program consists of two courses: PA 5180 ? Public Safety Leadership I (Fall) and 5180 ? Public Safety Leadership II (Spring). This program will be conducted in an integrated, cohort-based format designed for mid-career working professionals with experience in the public safety disciplines of law enforcement, fire, emergency management, emergency medical services, and the military. The courses focus on particular goals relevant to a mid-career audience of public safety leaders. Learning objectives include: 1. Learning about and developing executive leadership critical thinking skills in a cross-sector world. 2. Gaining confidence in delivering executive leader communications in diverse settings. 3. Expanding capacity for inter-disciplinary collaboration and multi-cultural competence. 4. Developing reflective leadership skills to enhance ethical practice. 5. Building knowledge, skills, wisdom, and motivation to formulate public safety problems, fashion effective solutions, and build necessary coalitions of support to achieve public value and advance the common good. 6. Learning and developing managerial skills to employ in complex public safety organizational settings. 7. Building a trusting community of praxis. Course activities will integrate guest lecturers from the public safety field, case studies, group activities, and online activities in between monthly face-to-face sessions.

PA 5190 Topics in Public and Nonprofit Leadership and Management: Leadership to Address Global Grand Challenges
1.5 credit(s), max credits 9, 3 completions allowed;
Instructor: Bloomberg,Laura L
Description: This 4-day skills-based course will introduce participants to select integrative leadership strategies useful in addressing global grand challenges. Specifically, we will focus on leadership practices that foster collective action across diverse groups of people, including: 1. Hosting dialogue, debate and deliberation; 2. Mapping polarities and balancing paradox 3. Designing inclusive decision-making processes; Not surprisingly, grand challenges often emerge at the convergence of systems, sectors, or global institutions. For example, the grand challenges at the convergence of human health, animal health, economic development and environmental change include such issues as global food security, emerging infectious diseases, climate change, antimicrobial use and the control of catastrophic animal diseases with significant adverse effects on global economies. The course culminates on Thursday, January 17th with an opportunity for participants to apply key leadership skills in a public setting with multi-sector stakeholders. Students will serve as co-hosts along with course instructors for a day-long professional forum to address a contemporary food security grand challenge that is also a paradoxical dilemma conducive to polarity mapping: balancing animal well-being and agricultural worker safety. This Finding Common Ground Forum is hosted by the University of Minnesota Center for Integrative Leadership (CIL) and the Global Initiative for Food Systems Leadership (GIFSL). Following the Forum, students will meet for dinner, a Forum de-brief, and discussion of course follow-up assignments (which will be completed on-line).

PA 5190 Topics in Public and Nonprofit Leadership and Management: Leadership to Address Global Grand Challenges
1.5 credit(s), max credits 9, 3 completions allowed;
Instructor: Hueston DVM,William D.
Description: This 4-day skills-based course will introduce participants to select integrative leadership strategies useful in addressing global grand challenges. Specifically, we will focus on leadership practices that foster collective action across diverse groups of people, including: 1. Hosting dialogue, debate and deliberation; 2. Mapping polarities and balancing paradox 3. Designing inclusive decision-making processes; Not surprisingly, grand challenges often emerge at the convergence of systems, sectors, or global institutions. For example, the grand challenges at the convergence of human health, animal health, economic development and environmental change include such issues as global food security, emerging infectious diseases, climate change, antimicrobial use and the control of catastrophic animal diseases with significant adverse effects on global economies. The course culminates on Thursday, January 17th with an opportunity for participants to apply key leadership skills in a public setting with multi-sector stakeholders. Students will serve as co-hosts along with course instructors for a day-long professional forum to address a contemporary food security grand challenge that is also a paradoxical dilemma conducive to polarity mapping: balancing animal well-being and agricultural worker safety. This Finding Common Ground Forum is hosted by the University of Minnesota Center for Integrative Leadership (CIL) and the Global Initiative for Food Systems Leadership (GIFSL). Following the Forum, students will meet for dinner, a Forum de-brief, and discussion of course follow-up assignments (which will be completed on-line).

PA 5204 Urban Spatial and Social Dynamics
3 credit(s);
Instructor: Goetz,Edward Glenn
Description: OVERVIEW Site planning is the process of analyzing and preparing graphic plans for property development

PA 5213 Introduction to Site Planning
3 credit(s);
Instructor: Ingraham,Greg
Description:
The intent of this course is to provide a practical hands-on understanding of site planning issues, process, opportunities and techniques through preparation of an overall area master plan and a more detailed site plan for the case study site - park land in Saint Paul, MN. The course includes a site walk near campus, a visit to the off-campus project site in St. Paul, visits to Twin City area parks and to the HKGi office in Minneapolis. The course combines lectures, group discussion, site visits, readings, research and group and individual assignments which lead to creating a master plan and site plan for the project site. LEARNING OUTCOMES 1. Understand the master plan and site plan process, terminology and influences. 2. Be able to evaluate physical development plans and recognize quality plans. 3. Work in a group to prepare a master plan. 4. Create a functional context-based site plan.

Style: 40% Lecture, 15% Discussion, 20% Small Group Activities, 10% Student Presentation, 10% Guest Speakers. Students need the ability to visit the case study site and participate in other site visits.

Grading: 10% final exam, 80% special projects, 10% class participation. Special Projects: Small group work - Research 10% and preparation of a master plan 30%. Individual project -preparation of a site plan 40%.

Exam Format: Multiple choice and short answer

PA 5221 Private Sector Development
3 credit(s);
Instructor: Janzen,Amanda SoJin
Description:

PA 5242 Environmental Planning, Policy, and Decision Making
A-F only, 3 credit(s);
Instructor: Slotterback,Carissa Schively
Description: The course integrates insights from theory and practice related to environmental planning, policy, and decision making. Readings, projects, and discussions will highlight ethical, legal, and institutional frameworks from the local to the global scales relative to a range of environmental issues, including natural resource conservation, water, air, endangered species, waste, climate change, and sustainability. In addition, the course will examine innovative approaches to environmental decision making informed by collaborative planning, conflict resolution, adaptive management, and resilience thinking. The course will draw on theoretical perspectives, case material, and real-world examples from planning and environmental decision-making contexts at multiple scales. Special emphasis will be placed on integrating cross-disciplinary perspectives on environmental issues, decision-making approaches, and implementation techniques. The course will take a primarily domestic focus, with international cases and examples integrated for comparative purposes. The course is appropriate for graduate level students in urban planning, public policy, social and natural sciences, natural resource management, and design.

PA 5261 Housing Policy
A-F only, 3 credit(s);Grad or instr consent Credit will not be granted if credit has been received for: HSG 5463;
Instructor: Goetz,Edward Glenn

PA 5271 Geographic Information Systems: Applications in Planning and Policy Analysis
3 credit(s);
Instructor: Hankey,Steve

PA 5290 Topics in Planning: Design for Sus Dev: Create I
2 credit(s), max credits 12, 3 completions allowed;
Instructor: Rose,Fred Anthony
Description:

PA 5290 Topics in Planning: Mayor 101
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Rybak, Raymond "R.T." Thomas
Description: Student may contact the instructor or department for information.

PA 5311 Program Evaluation
3 credit(s);
Instructor: Sandfort, Jodi R.
Description:
PA 5405 Public Policy Implementation
A-F only, 3 credit(s);
Instructor: Sandfort, Jodi R.
Description: This course examines issues in the implementation of social programs and policies. It explores implementation as an integral, dynamic and often unpredictable component of the policy-making process. Policies are not only created by elected officials, who authorize and fund government activities, but also by state administrators, local managers, front-line staff, and policy clients. Because these actors create the operating procedures, establish the goals, distribute the scarce resources, and react to new policy initiatives, sometimes in contradictory ways, implementation is not a straightforward, linear process. Much of policy implementation involves negotiation between different levels of government and/or nonprofits in decentralized service delivery systems. This course provides students skills to better understand and navigate these dynamics. Because implementation is inherently a social process, it requires skillful actors who can both analyze situations and work effectively with others to direct resources, manage competing demands, and move toward positive social outcomes. As such, students need to cultivate their abilities to be analytical, reflective and adaptive.
Style: 10% Film/Video, 35% Small Group Activities, 5% Student Presentation, 15% Field Trips, 35% Web Based. The last class session will meet for four hours to accommodate student presentations.

PA 5413 Early Childhood and Public Policy
3 credit(s);
Instructor: Slawik, Nora B
Description: Early childhood investments are proven to give a significant return on the investment of the state government dollar. Learn about Minnesota's deep education achievement gap and strategic ideas for closing it in this class. Early Childhood and Public Policy is the cornerstone class for the Regent's approved Early Childhood Policy Certificate, which is intended to develop individuals' capacity to apply research-informed knowledge of early development to federal and state policies affecting children up to age 8. If you are interested in education policy or working with the legislature, this is a great course for you. Weekly guest speakers including legislators, lobbyists and economists -- will explore the policy gaps and innovative approaches in Minnesota, such as early education scholarships and the federal Race to the Top grant funding. For an excellent introduction to early education policy and how it can significantly impact the positive trajectory of a child's life, join this class taught by former legislator and Chair of the Early Education Finance Committee, Nora Slawik. Graduate students in the areas of early childhood and public policy as well as community members with experience in the early childhood field are the intended audience. The course must be taken on an A/F grading basis to apply towards the certificate. Nora Slawik works at the Director of Education for the Autism Society of Minnesota (AuSM). She manages monthly targeted workshops, innovative interest based social skills programs, and directs training for parents of the newly diagnosed and group-specific training for organizations such as Kids Hair and the Children's Theatre Company. Slawik began her term as Mayor of Maplewood in January of 2014 working in a leadership role implementing policies, budgets and community services. She is an appointed member of the of the Gateway Corridor Commission, the Rush Line Task Force and the Transportation Advisory Board. Slawik served seven terms in the Minnesota House of Representatives focusing on early childhood and human services issues. Prior to that she worked as a development professional with nine years of nonprofit experience.
Style: 20% Lecture, 20% Discussion, 20% Small Group Activities, 10% Student Presentation, 20% Guest Speakers. Experts in the areas related to young children speak regularly on kindergarten readiness, statistical preschool studies, legislation, poverty, economics and workforce issues.
Grading: 40% reports/papers, 10% special projects, 30% written homework, 10% attendance, 10% class participation. Class attendance also weighs into the final grade if the student misses more than two of the weekly classes.

PA 5422 Diversity and Public Policy
A-F only, 3 credit(s);
Instructor: Myers Jr, Samuel L
Description: This course surveys what every policy analyst ought to know about diversity. The lectures and discussions draw upon the literatures on a) the economics of diversity; b) the business and public administration cases for workplace diversity; c) the value of cultural competency in public and non-profit organizations; and d) current policy debates about how and whether diversity competes with other policy objectives, such as efficiency and equity. See syllabus in Course Guide for more information.

PA 5431 Public Policies on Work and Pay
3 credit(s); [PA 5031 or equiv.], grad student] or instr consent credit will not be granted if credit received for: HRIR 5061; Credit will not be granted if credit has been received for: HRIR 5061;
Instructor: Kleiner, Morris M
Description:

PA 5490 Topics in Social Policy: Economics and Education Policy
1.5 credit(s), max credits 9, 3 completions allowed;
Instructor: Temple, Judy
PA 5501 Theories and Policies of Development
3 credit(s);
Instructor: Friedemann-Sanchez, Greta
Description: Economic and human development theories/strategies throughout the world. Competing theoretical paradigms. Policy debates. Poverty/inequality, rural development, trade policy, health, education, gender, the environment.

PA 5521 Development Planning and Policy Analysis
4 credit(s);
Instructor: Assaad, Ragui A
Description: Examines techniques/assumptions of development planning and policy analysis at the national & regional & project levels. Focus on modeling techniques & planning applications rather than theory. Students assumed to have a background in theories of economic development and to have had previous preparation in quantitative methods. The point of the course is to introduce you to some widely-used modeling techniques that you may come across in the literature, professional practice or future careers. The goal is not to make you experts in any particular method. Instead, you should come away with an appreciation of the promise and pitfalls of quantitative modeling, while acquiring a specific set of skills through hands-on application. Models in the course are used to analyze direct and indirect effects of government interventions in the economy, with a stress on intersectoral linkages. Planning & policy analysis techniques such as macroeconomic modeling, input-output analysis, social accounting matrices & multipliers are covered. Techniques used in project appraisal and evaluation such as cost-benefit analysis will be examined. While focus will be on developing countries, many techniques covered will have applications in the U.S. context.
Style: 67% Lecture, 33% Laboratory.
Grading: 15% mid exam, 85% special projects.
Exam Format: short essay, short answer

PA 5601 Global Survey of Gender and Public Policy
3 credit(s);
Instructor: Brown, Karen
Description: This course aims to provide an overview of gender and public policy in a global context. Through course readings, discussions, case studies, guest speakers and research projects, students will engage with key concepts, theories and cases in gender and global public policy with a particular focus on understanding issues of social constructions of gender, inequality and difference. This course is highly interactive with an emphasis on student participation. Course topics will include approaches to using gender as a lens for understanding public policy, policy analysis from a gender perspective considering both women’s and men’s experiences, and a series of thematic policy issues such as gender and political representation, military service, economic development policy, humanitarianism, violence against women, and international governance and human rights.

PA 5715 Survey of Current Issues in Science, Technology, and Environmental Policy
A-F only, 1.5 credit(s);
Instructor: Kelley, Steve
Description: This class is run as a guided book club with students regularly taking responsibility for leading the discussion of the assigned book. It is a seminar style rather than a lecture class. The policy-related subjects we are likely to cover in spring 2014 are social psychology and neuroscience, chemicals of emerging concern, climate change, environmental justice, information and communications technology, and food. For example, the lead book will be The Righteous Mind by Jonathan Haidt. For some sessions, we will have guests who may give short presentations but will then engage in discussion with the class. The goals for students are that you will: Gain an understanding of current "hot" topics in science, technology and environmental policy; develop critical thinking skills; develop facilitation and discussion skills; understand the social and historical contexts of current issues; and become a discerning participant/observer in science, technology and environmental policy. Evaluations are based on short papers and class participation.

PA 5723 Water Policy
3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: WRS 5101;
Instructor: Swackhamer, Deborah L
Description:

PA 5741 Risk Analysis and Policy
3 credit(s);
Instructor: Fatehi, Leili
Description: This class will focus on the interplay between risk analysis, decision making, and risk policy for societal issues involving human, environmental, and ecological health and well-being. The role of S&T in risk analysis, either as the subjects or the tools, will be explored. A mix of readings, class discussions, problem solving and group exercises will be
used to facilitate understanding of technical risk assessment methods; risk management processes, issues and methods; the role and treatment of uncertainty; factors in decision making; risk-based rule making; public values about risk; risk communication; and risk perception. Scientific, technical, social, political, and ethical issues for select case studies will be discussed. The class will help students develop skills for formulating questions for risk policy research, structuring risk analyses and problems, critiquing analytical and political choices involving risk, and building conceptual models of systems involving risk and decision-making. We will be spending about half the course on the risk policy dimensions (i.e. where risk and S&T intersect with society?) and the other half understanding the methodologies and techniques used in risk analysis so that we can be better analysts, consumers, or policy makers in the face of risk information. Although we will do some basic modeling and calculations, sophisticated mathematical abilities are not required. Rudimentary knowledge of statistics and ability to work with algebraic equations will be helpful.

Grading: 15% final exam, 40% reports/papers, 30% written homework, 15% class participation.

PA 5790 Topics in Science, Technology, and Environmental Policy: Science & Policy of Global Environmental Change

3 credit(s), max credits 9, 3 completions allowed;
Instructor: Hobbie, Sarah E
Description: Student may contact the instructor or department for information.

PA 5790 Topics in Science, Technology, and Environmental Policy: Science-to-Action for the Common Good

1.5 credit(s), max credits 9, 3 completions allowed;
Instructor: Ramaswami, Anu
Description: All Paths for Translating Science to Action for the Common Good Translating science to action has occurred in all societies, but is more complicated in technological societies when multiple aspirations (economy, environment, health, climate-risks) are at play, where people are removed from the natural system, and, where technological innovation is rapid but often not well-understood in terms of impact. As a result, solving grand challenges? of environmental sustainability, food security, climate-resilience and governance of emerging technologies requires integrating multiple pathways and multiple sectors for translating science to action. The multiple pathways refer to regulations, voluntary programs, cooperative approaches, entrepreneurial and market-based solutions. The various pathways require multi-sector collaboration between academia, governments, for-profit and NGO sectors, all of whom play different roles in translating science to action. Further, communities themselves hold vast local informal knowledge? often untapped - that is essential for place-based problem-solving . Most importantly, professionals no longer work within or with only one sector throughout their career, and are now expected to have the knowledge of the multiple pathways and sectors described above. Given these needs, this course is envisioned as a first introductory course for translating science to action for the common good. offered to students, researchers and professionals who are seeking high social impact Course Objectives: This course will: - Introduce students to the available theories and frameworks that describe some of the strengths and weaknesses, and best practices in working on grand challenge challenges across communities, businesses, governments, academia and NGO sectors. - Using the example of sustainable city development, different pathways will be delineated as well as the need for using a portfolio approach incorporating multiple pathways, and multiple sectors. - Experts from the different sectors will share their experiences describing the culture as well as practice in these different sectors. - Students and faculty will participate in the course in a seminar format with reflections after each week, and a synthesis paper addressing pathways and sectors for a ?challenge? problem defined by the student. Grading: The course is a blend of a seminar plus project-based course. Grading will be based on framing relevant and creative questions (25%), engaging in dialogue with the weekly speakers and with the class-cohort (25%), and, on translating learning from the course into a real world project (chosen by the student) that will be due at the end of the course (50%).

PA 5801 Global Public Policy

3 credit(s);
Instructor: Ron, James
Description: This foundational course is aimed at graduate students in public affairs and other disciplines with an interest in global issues. It is also open to a smaller number of advanced undergraduates. Humphrey School students interested in a Global Policy concentration are strongly encouraged to take this course in their first year. Although this course provides basic background material, advanced students will benefit from advanced readings and policy-relevant assignments. The class meets twice a week. One meeting will be devoted to lecture and participatory student discussions. The second will be devoted to policy-relevant student presentations and discussions. Topics include inter-state and internal armed conflict; terrorism; international institutions; international trade and finance; international NGOs; human rights; and global environmental policy.
Style: 50% Lecture, 30% Discussion, 20% Student Presentation.

PA 5880 Exploring Global Cities: Urban and Environmental Sustainability in Austria

OPT No Aud, 2 credit(s), max credits 6;
Instructor: Slotterback, Carissa Schively
Description: This spring 2014 course is designed as a study abroad scheduled for May 19-31, 2014. The focus of the study abroad program is Urban and Environmental Sustainability Innovations in Austria. Austria and its cities offer a
tremendous concentration of innovation in areas such as energy, water, urban development, waste management, transportation, and housing. This program features visits to five cities in Austria, including Vienna, Linz, Salzburg, Graz, and Gussing. We will visit project sites, as well as experts from universities, private companies, and communities. In addition to highlighting project examples, the program will examine European Union, Austria, and local level policies that are intended to advance sustainability and responses to climate change. The program is designed to be interdisciplinary and is intended for students in disciplines such as urban planning and urban studies, geography, public policy, forestry, agronomy, civil engineering, architecture, natural resource management, public health, landscape architecture, and more. For more information, please contact the course instructor.

PA 5890 Topics in Foreign Policy and International Affairs: Crisis Management
1.5 credit(s), max credits 9, 3 completions allowed;
Instructor: Andreasen, Steven Peter
Description: Participants will be introduced to three crucial tools -- stakeholder analysis, SWOT analysis, and causal mapping -- for helping design effective public policies, plans and projects. They will practice applying the methods to specific public problems and organizational challenges.

PA 5890 Topics in Foreign Policy and International Affairs: Bilateral and Multilateral Diplomacy
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Atwood, John Brian
Description: This three-credit course will examine the practice and process of diplomacy as it relates to the development and implementation of foreign and development cooperation policy in the United States government. We will review the history of inter-state relations and the international treaties and norms that have influenced policy and the practice of diplomacy, including the 1961 Vienna Convention on Diplomatic Relations. The practice has evolved over the years though it continues to incorporate functions such as representation, reporting, negotiation, intercultural contacts, and interaction with the media (e.g. "public diplomacy"). The "globalization" phenomenon, sometimes referred to as the "post-Westphalian world," has brought many new actors into the arena, including the private sector and civil society. We will examine the ways in which these forces, institutions, and individuals interact with the work of the modern diplomat. International organizations such as the United Nations require different rules and behaviors for diplomats and we will explore these arenas, including the "soft law" approaches employed by the Organization for Economic Cooperation and Development. Specific and current policy cases will be explored to illustrate the complexity of diplomatic strategies and the tactics, techniques and methods used to implement them. In addition to providing a knowledge base, this course will focus on the development of professional skills important to the diplomatic profession. These include policy analysis and formulation, written and verbal communication and negotiation. Diplomacy is the art of influencing the behavior of individuals, nations, and international organizations that do not necessarily share the policy goals or national interests of the diplomat. It is an art that requires perceptive understanding of other cultures, political and economic systems, the use of soft and hard power, geo-strategic positioning, global threat analysis and consensus building. We will invite experienced diplomats to share case studies with the class. Active participation by the class will be expected.

PA 5890 Topics in Foreign Policy and International Affairs: Politics of the Middle East & North Africa
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Parkinson, Sarah Elizabeth
Description: Middle East Politics is a 5000-level graduate seminar that examines the domestic, regional, and transnational politics of the Middle East and North Africa. The class is organized into two primary units. Unit One examines major armed conflicts?anti-colonial, intra-state, and inter-state?from 1948 through the 1990s. It uses these historical moments as windows onto key policy-relevant issues in MENA such as external intervention/occupation, human rights, mobilization, social movements, and political economy. Unit Two focuses on policy-relevant issues such as religion and politics, democratization and elections, political economy, sectarianism, minorities, civil society, and gender. In the final two weeks of class, students will explore the politics and policy implications of the Arab Uprisings.
Style: 18% Lecture, 70% Discussion, 12% Student Presentation.
Grading: 30% reports/papers, 30% reflection paper, 20% in-class presentation, 20% class participation.

PA 5920 Skills Workshop: Stakeholder/SWOT Analysis, and Causal Mapping
0.5 credit(s), max credits 12, 12 completions allowed;
Instructor: Munnich Jr, Lee William
Description: Participants will be introduced to three crucial tools -- stakeholder analysis, SWOT analysis, and causal mapping -- for helping design effective public policies, plans and projects. They will practice applying the methods to specific public problems and organizational challenges.

PA 5920 Skills Workshop: Effective Grantwriting in Public Affairs
1.5 credit(s), max credits 12, 12 completions allowed;
Instructor: Jacobs, Stephanie Jean
Description: Grant writing is a critical skill for almost all nonprofit organizations. Proposals are often key communication tools used by nonprofit leaders to communicate with potential funders and generate financial support. But grant writing does not simply involve sitting at your desk, churning out proposals. Nonprofits must understand the process of researching and seeking grants that are an appropriate match of the nonprofit?s needs and the funder?s interests, as well
as working effectively within their organizations to create substantive, fundable proposals. When the grant writing process is working at its best, development staff are aware of their clients’ and organization’s needs and capabilities, are intimately familiar with the programs and services offered, and spend the majority of their time matching these needs to funders’ interests. At its worst, development staff create new programs on their own based solely on funders’ interests with little or no communication with program staff until the final report is due. This course addresses these and other common problems in the grant writing process and provides students with the skills and resources they need to overcome them. By the end of the workshop, students will: 1. Be familiar with the grant making process. 2. Understand what makes a good proposal. 3. Develop grant writing and program development skills.

PA 5920 Skills Workshop: Data Visualization: Telling Stories with Numbers
1 credit(s), max credits 12, 12 completions allowed;
Instructor: Krafft, Caroline G
Description: PA 5031: Empirical Analysis I is suggested, but not required

PA 5920 Skills Workshop: Data Visualization: Telling Stories with Numbers
1 credit(s), max credits 12, 12 completions allowed;
Instructor: Krafft, Caroline G
Description: PA 5031: Empirical Analysis I is suggested, but not required

PA 5924 Intercultural Competence
A-F only, 3 credit(s);
Instructor: Fennelly, Katherine
Description: The goal of this course on Intercultural Competence is to help graduate students improve their ability to interact and work effectively with diverse populations. It is primarily web-based, but the class meets face-to-face three times during the semester for day-long workshops. These are listed as section 001, ?LEC?. In addition, students will interact on a weekly basis with the instructor online, and will meet via computer with one another in scheduled small group sessions using Google Hangout. (At the first face-to-face session students will be trained in the use of this technology). In order to schedule online meeting sessions that fit with their schedules, students must register for one of three discussion sections (DIS 001, 002 or 003). When a student registers for one of the three sections, he or she is "auto-enrolled" into the main class: section 001. Throughout the course students will acquire the skills needed to complete a final project advocating public policy changes that would foster greater cross-cultural understanding. The course design engages participants in discussions of cross-cultural communication, styles of leadership, group identity and culture through responses to readings, web clips and films.

PA 5925 Creating a Professional Online Portfolio
S-N only, 1 credit(s);
Instructor: Groves, Lynne Denise
Description:

PA 5952 Global Commons Seminar II
A-F only, 2 credit(s);
Instructor: Levison, Deborah
Description: Student may contact the instructor or department for information.

PA 5990 Topics: Public Affairs--General Topics: Governing...Minnesota Style
3 credit(s), max credits 9, 6 completions allowed;
Instructor: Sviggum, Steven
Description:

PA 5990 Topics: Public Affairs--General Topics: N'hood Collaborative Engagement: Cedar Riverside
1 credit(s), max credits 9, 6 completions allowed;
Instructor: Benasutti, Merrie A
Description:

PA 8001 Transforming Public Policy
A-F only, 3 credit(s);
Instructor: Anderson Kelliher, Margaret E
Description:

PA 8081 Capstone Workshop: White Earth
A-F only, 3 credit(s), max credits 6;
Governor Dayton signed the Minnesota Solar Jobs Act which is projected to increase installed solar in Minnesota thirtyfold rapidly, but Minnesota has lagged behind other states in developing solar energy. This is about to change. In 2013, Minnesota Public Utilities Commission

Students working on this project will develop skills in program evaluation and qualitative survey methodologies. Examples from previous years: Hennepin County, "Heading Home Hennepin? homeless initiative: conducted stakeholder assessment of Curry Avenue partnership; MEDA: evaluated potential for national collaboration of economic development organizations committed to entrepreneurship in communities of color; tpt: evaluated impact of its sponsored collaboration to produce show on homeless youth; City of St. Paul: evaluated feasibility of expanding youth service circulators and collaborations to other city neighborhoods; MN Dept. of Human Services: assessed the children?s mental health collaborations and parental involvement. Neighborhood Learning Community, West Side St. Paul: conducted a network diagnosis of the NLC to pinpoint unique strengths of its model and identify ways to improve the impact of its work.

The topic for the Spring 2014 PA 8081(7) economic and community development capstone workshop will be "Business Improvement Districts as an Economic and Community Development Strategy." Lyssa Leitner, a Humphrey grad who works for Washington County, will be my co-instructor again this year. Teams of Humphrey School graduate students will work with community clients considering a business improvement district (BID) as an approach to improve business areas and increase opportunities for economic and community development. A business improvement district (BID) is an area within which businesses pay an additional tax (or levy) in order to fund projects within the district's boundaries. The BID is often funded primarily through the levy but can also draw on other public and private funding streams. BIDs provide services, such as cleaning streets, providing security, making capital improvements, construction of pedestrian and streetscape enhancements, and marketing the area. The services provided by BIDs are supplemental to those already provided by the municipality. Three client projects have been identified for this capstone: 1) The City of North St. Paul, 2) Midway industrial district in St. Paul, 3) the Little Mekong Business and Culture District on University Avenue in St. Paul. Depending on the number of students enrolling in the course, additional client projects may be added for Stillwater, Lowertown in downtown St. Paul, and/or Selby Ave. in St. Paul. Student teams of 3 to 5 students will prepare a strategy report which consists of three parts: 1) a diagnosis of opportunities and risks, 2) a vision for the future, and 3) an action plan in accord with that vision.

This Capstone project will partner with Hennepin County?s Office to End Homelessness to help them to develop programs and services for homeless families and children. The project will consist of two separate projects. One group will work with current staff at shelters that serve young families to develop and implement a qualitative survey of young children in homeless shelters. This survey will inform current initiatives to improve services for young families with children. Students working on this project will develop skills in program evaluation and qualitative survey methodologies. A second group will use individual level administrative data to investigate the linkages between time limits and use of services among homeless families. In particular, they will investigate whether families who have reached the 60 month time limit on MFIP are more likely to enter shelters, and whether they also receive fewer services such as child care support. Students working on this project will develop skills in program evaluation and the statistical analysis of complex administrative data sources. Both teams will work separately, but will share preliminary results with each other, and will offer feedback to each other to improve the quality of the final products.

Solar Energy For the Future! Clients: Center for Energy and the Environment, Fresh Energy, and the Minnesota Public Utilities Commission Be part of Minnesota?s energy future! The costs of solar electricity have decreased rapidly, but Minnesota has lagged behind other states in developing solar energy. This is about to change. In 2013, Governor Dayton signed the Minnesota Solar Jobs Act which is projected to increase installed solar in Minnesota thirtyfold
This legislation is the first in the country to place a value on solar energy and other states are watching how we implement the policy. However, passing the legislation is just the first step. Tricky questions of how to integrate solar photovoltaic (PV) projects into the grid, compensate owners and provide reliability services will affect the value of solar energy and its integration into the electricity system. This will change the business model and provide new opportunities for clean energy in the state.

Capstone members will work with the clients in learning about how electricity rate designs are calculated and how they affect the material interests of different stakeholders. Members will define and evaluate the impacts of different rate structures on solar PV in Minnesota and their affects on different stakeholder classes. This issue is particularly timely as the state and legislature work to create and evaluate solar energy in Minnesota. Additionally Capstone members will gain practical skills in energy project evaluation and the importance of rate design.

PA 8081 Capstone Workshop: Policy and Planning
A-F only, 3 credit(s), max credits 6;
Instructor: Benasutti, Merrie A
Description: PA 8081: Policy and Planning capstone was proposed by and developed in consultation with Humphrey students who were interested in community based research and committed to engaging the Humphrey School in community-based initiatives to strengthen the Cedar Riverside neighborhood in which our school is located. Since the 2007-2008 academic year when the courses first were offered, students have completed over 20 different projects with and for neighborhood organizations, including the Brian Coyle Community Center, the Cedar Riverside Neighborhood Revitalization Program, the West Bank Business Association, and the West Bank Community Coalition. Completion of PA 5990 Neighborhood Collaborative Engagement (1 cr. workshop, January 13-17, 2014) generally will be considered a prerequisite for enrollment in this section of PA 8081 in the Spring 2014 semester. The Neighborhood Collaborative Engagement course focuses on learning about the Cedar Riverside neighborhood, community based research, and skills used in research projects. Students develop scopes of work for community based research projects to be undertaken with neighborhood partners during the Spring 2014 semester. CHANCE website:
http://www.leadership.umn.edu/student_initiatives/chance

PA 8081 Capstone Workshop: Policy and Planning
A-F only, 3 credit(s), max credits 6;
Instructor: Lindsey, Greg H
Description: PA 8081: Policy and Planning capstone was proposed by and developed in consultation with Humphrey students who were interested in community based research and committed to engaging the Humphrey School in community-based initiatives to strengthen the Cedar Riverside neighborhood in which our school is located. Since the 2007-2008 academic year when the courses first were offered, students have completed over 20 different projects with and for neighborhood organizations, including the Brian Coyle Community Center, the Cedar Riverside Neighborhood Revitalization Program, the West Bank Business Association, and the West Bank Community Coalition. Completion of PA 5990 Neighborhood Collaborative Engagement (1 cr. workshop, January 13-17, 2014) generally will be considered a prerequisite for enrollment in this section of PA 8081 in the Spring 2014 semester. The Neighborhood Collaborative Engagement course focuses on learning about the Cedar Riverside neighborhood, community based research, and skills used in research projects. Students develop scopes of work for community based research projects to be undertaken with neighborhood partners during the Spring 2014 semester. CHANCE website:
http://www.leadership.umn.edu/student_initiatives/chance

PA 8081 Capstone Workshop: Making Sustainable Transportation Work
A-F only, 3 credit(s), max credits 6;
Instructor: Lindsey, Greg H
Description: This workshop will have at least three project options for local and regional organizations: 1) Implementing Living Streets for N. St. Paul, 2) Analyzing Housing Equity and Opportunity in the Bottineau Corridor for City of Lakes Community Land Trust, and 3) Building Evidence for Active Travel in the Metropolitan Area for local transportation agencies.

PA 8081 Capstone Workshop: International development policy
A-F only, 3 credit(s), max credits 6;
Instructor: Gray, Sherry
Description:

PA 8081 Capstone Workshop: UROC
A-F only, 3 credit(s), max credits 6;
Instructor: Gerdes, Kevin Scott
Description:

PA 8081 Capstone Workshop: Military and Overseas Voting in Minnesota
Description: Pursuant to the federal Uniformed and Overseas Citizens Absentee Voting Act (UOCAVA), election offices across the nation are required to track and report data on voting by military and overseas voters in their communities. Unfortunately, the quality of this data is uneven due to widely varying systems at the state and local levels for managing election data?meaning that potential opportunities to improve the experience for UOCAVA voters can be lost. In this capstone, students will participate in a project for the Pentagon?s Federal Voting Assistance Program aimed at identifying what works and what doesn?t in UOCAVA tracking nationally. Specifically, students will interview state and local election professionals in Minnesota to learn about procedures and technologies used for UOCAVA tracking. These observations will be included in a larger report designed to identify best practices that can be shared across jurisdictions nationally.

PA 8081 Capstone Workshop: Foreign/security policy, human rights/humanitarian
A-F only, 3 credit(s), max credits 6;
Instructor: Curtin, Mary Therese
Description:

A-F only, 3 credit(s);
Instructor: Levison, Deborah
Description: Student may contact the instructor or department for information.

A-F only, 3 credit(s);
Instructor: Levison, Deborah
Description: Student may contact the instructor or department for information.

PA 8082 Working Group: Science, Tech, and Env Policy
A-F only, 3 credit(s);
Instructor: Wilson, Elizabeth Joan
Description:

PA 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 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 freeway expansion, urban growth boundary, rail investments, value pricing, etc. These policies would impact both transportation and land use because the latter two are inextricably linked. The construction of a new 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 travel patterns of residents in 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. This course will cover key theories and practices, research methodologies and findings, traditional and emerging policy instruments, and techniques for planning. My goal 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 underlying land use and transportation interactions; - spatial evolution of cities related to transportation infrastructure; - empirical impacts of transportation infrastructure on land 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.

PA 8390 Advanced Topics in Advanced Policy Analysis Methods: Economic Demography
3 credit(s), max credits 6;
Instructor: Johnson, Janna Elizabeth
Description: This course is designed to expose advanced graduate students to classical theory, advanced econometric methods, recent empirical work, and available datasets for research in economic demography. Topics covered include economics of mortality, fertility, migration, marriage, women?s labor supply, intra-family bargaining, and age structure. The course also aims to develop students? skills in critical analysis and academic discourse through in-depth discussions and
replications of papers, presentations, referee-style writing assignments, and a term paper.

PA 8921 Master's: Professional Paper (Individual Option)
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Friedemann-Sanchez, Greta
Description: Student may contact the instructor or department for information.

PA 8921 Master's: Professional Paper (Individual Option)
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Stone, Melissa M
Description: Student may contact the instructor or department for information.

PA 8921 Master's: Professional Paper (Individual Option)
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Myers Jr, Samuel L
Description: Student may contact the instructor or department for information.

PA 8921 Master's: Professional Paper (Individual Option)
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Hanratty, Maria J
Description: Student may contact the instructor or department for information.

PA 8921 Master's: Professional Paper (Individual Option)
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Atwood, John Brian
Description: Student may contact the instructor or department for information.

PA 8921 Master's: Professional Paper (Individual Option)
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Kiedrowski, P. Jay
Description: Student may contact the instructor or department for information.

PA 8921 Master's: Professional Paper (Individual Option)
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Wilson, Elizabeth Joan
Description: Student may contact the instructor or department for information.

PA 8921 Master's: Professional Paper (Individual Option)
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Soss, Joe
Description: Student may contact the instructor or department for information.

PA 8921 Master's: Professional Paper (Individual Option)
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Parkinson, Sarah Elizabeth
Description: Student may contact the instructor or department for information.

PA 8922 Master's Paper: Plan B
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Lindsey, Greg H
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Bloomberg, Laura L
Description: Student may contact the instructor or department for information.
Instructor: Friedemann-Sanchez,Greta  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Stone,Melissa M  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Jacobs,Larry  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Bryson,John M  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Swackhamer,Deborah L  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Myers Jr,Samuel L  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Boyte,Harry C  
Description: None.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Crosby,Barbara C  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Levison,Deborah  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Goetz,Edward Glenn  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Kleiner,Morris M  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;  
Instructor: Stone,Paul Clois  
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Munnich Jr, Lee William
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Kudrle, Robert T
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Assaad, Ragui A
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Hanratty, Maria J
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Cao, Jason
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Johnson, Janna Elizabeth
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Sandfort, Jodi R.
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Atwood, John B.
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Kiedrowski, P. Jay
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Slotterback, Carissa Schively
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Wilson, Elizabeth Joan
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study

0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Temple, Judy
Description: Student may contact the instructor or department for information.
PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Kelley, Steve
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Zhao, Zhirong Jerry
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Soss, Joe
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Allen, Ryan Patrick
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Husbands Fealing, Kaye
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Fan, Yingling
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Lindsey, Greg H
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Gray, Sherry
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Quick, Kathy
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Ron, James
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Schwartz, Eric Paul
Description: Student may contact the instructor or department for information.

PA 8991 Independent Study
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Ramaswami, Anu
Description: Student may contact the instructor or department for information.
**Public Health**

**PubH 1004 Sexuality Matters**
1 credit(s);
Instructor: Matson, Emily Ann
Description: The purpose of this course is to equip students with the knowledge and skills necessary to lead healthy sexual lives. Recognizing the inconsistency and diverse range of previous sexuality education among students, this course is intended to fill those gaps and provide a solid foundation based on unbiased, medically accurate, and evidence-based information and programs. Sexuality Matters seeks to increase knowledge, build communication skills, help clarify personal values, and dispel myths regarding sexuality and relationships. Sexuality is a part of everyone's lives, and this course takes

**PubH 1003 Alcohol and College Life (ACL)**
1 credit(s);
Instructor: Lucachick, Laurie Ann
Description: Alcohol and College Life (ACL) 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.

**PubH 1001 Success Over Stress (SOS)**
1 credit(s);
Instructor: Keene, Sarah
Description: Success Over Stress (SOS) is an introductory level course designed to provide students with the knowledge and tools they need to recognize and manage stress while in college - and beyond. It covers basic concepts in stress prevention and mitigation while empowering students to choose from a variety of techniques that promote self-awareness and reflection, goal setting, and action toward healthy stress management. The course uses stories, scenarios and information pertinent to all students. It emphasizes prevention strategies and proactive decision-making. It presents students with tips about how to navigate college life and be successful, including time management, building a support system, effective communication and recognizing unhealthy coping techniques. Students are encouraged to think about how the course topics apply to their own lives.

**PA 8991 Independent Study**
0.5-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Parkinson, Sarah Elizabeth
Description: Student may contact the instructor or department for information.

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**Style:** 100% Web Based. All lessons and readings are accessed via the course site. Lessons can be read and/or listened to via the computer or downloaded in text or mp3 format. Coursework requires approximately 45 hours of effort throughout the term.

**Grading:** 50% quizzes, 50% written homework.
a comprehensive approach to education. When students are comfortable with their sexuality and can effectively communicate about and advocate for their needs, they are more likely to make informed and healthier decisions. We hope to provide students with tools to help them during their college years and throughout the rest of their lives. SM is intended for undergraduate students of any major who want to learn how to better understand their sexuality, and/or want experience taking an online course. It is entirely web-based. 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: http://digitalcampus.umn.edu/apply/online-student-resources.html. Students should email SMatters@umn.edu with any questions or concerns. Emails should be sent from U of M email accounts. SM is offered through the Rothenberger Institute. RI provides a suite of wellness-based courses focusing on the knowledge and skills students need to lead healthy, productive, and balanced lives. For more information, visit www.ri.umn.edu.

Style: 100% Web Based. All lessons and readings are accessed via the Moodle course site. Lessons can be read and/or listened to via the computer or downloaded in text or mp3 format. Coursework requires approximately 45 hours of effort throughout the term.

Grading: 37% quizzes, 63% written homework.

**PubH 1005 Sleep, Eat, and Exercise**
1 credit(s);
Instructor: Kjolhaug, Jerri Rae
Description: <html> <title>PubH 1005</title> <style> <!-- .video { text-align:center; } --> </style> </head> <body>
Sleep, Eat & Exercise (SEE) is an introductory level course designed to provide students with the knowledge and skills they need to live a balanced life while in college - and beyond. It covers basic concepts in nutrition, sleep, and physical activity and incorporates a variety of techniques to promote self-awareness and reflection, goal setting, and action toward wellness. SEE is intended for undergraduate students who want a basic knowledge of one or more of the main topic areas, want help achieving/maintaining a healthy lifestyle, and/or want experience taking an online course. It is entirely web-based. 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: http://digitalcampus.umn.edu/resources/index.html. Students should email SEE@umn.edu with any questions or concerns. Emails should be sent from U of M email accounts.

SEE is offered through the Rothenberger Institute. RI provides a suite of wellness-based courses focusing on the knowledge and skills students need to lead healthy, productive, and balanced lives. For more information, visit www.ri.umn.edu.

Style: 100% Web Based. All lessons and readings are accessed via the course site. Lessons can be read and/or listened to via the computer or downloaded in text or mp3 format. Coursework requires approximately 45 hours of effort throughout the term.

Grading: 40% quizzes, 60% written homework.

**PubH 2561 Public Health: A Global Perspective**
A-F only, 3 credit(s); Meets CLE req of Global Perspectives
Instructor: Sage PhD, Starr Kelly
Description: Student may contact the instructor or department for information.

**PubH 3001 Personal and Community Health**
2 credit(s); Credit will not be granted if credit has been received for: PUBH 3003;
Instructor: Lando, Harry A
Description: Student may contact the instructor or department for information.

**PubH 3003 Fundamentals of Alcohol and Drug Abuse**
2 credit(s); Credit will not be granted if credit has been received for: PUBH 3001;
Instructor: Lando, Harry A
Description: Student may contact the instructor or department for information.

**PubH 3004 Basic Concepts in Personal and Community Health**
4 credit(s); Credit will not be granted if credit received for: 3001 Credit will not be granted if credit has been received for: PUBH 3001;
Instructor: Lando, Harry A
Description: Student may contact the instructor or department for information.

**PubH 3005 Fundamentals of Alcohol and Drug Abuse for Teacher Education**
PubH 3005 is a course designed to meet the legislative requirement for teacher licensure in the state of Minnesota. This course is completely online, but is not an independent study course. Interactions are asynchronous. However, there are set due dates for discussion postings and assignments. The course consists of 14 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 identifying resources related to incidence and prevalence of substance use and abuse, role of chemical use on development, prevention issues and interventions, including an emphasis on high-risk populations.

Prerequisites: Undergrad in agricultural education, business/marketing education, career/technical education, foundations of education, kinesiology/pre-PE, technology education or music education. All other students should consult with the instructor, Emily Matson (mats0166@umn.edu), for a permission number. Credit will not be granted if credit has been received for: PubH 3002, 3003, 3004, 3032, 3033, 5003, 5023, or 6003.

Students must have access to a computer and the internet, as well as having basic computing skills. To assess your readiness for e-learning and learn tips for successful e-learning, go to: http://digitalcampus.umn.edu/apply/online-student-resources.html.

All class communications will be sent to students' official U of M email accounts only. Students should check their U of M email account frequently throughout the semester as that is how the students, the instructor, and the TA will communicate. Questions should be sent to pubh3005@umn.edu.

Students may access the course website after 1:00am on the first day of the semester. Going through the lessons and completing the readings, assignments and quizzes will require approximately 45 hours of effort throughout the term.

Style: 100% Web Based. Students access all lessons and readings via the Moodle course site. Going through the lessons and completing the readings, assignments and quizzes will require approximately 45 hours of effort throughout the term.

Grading: 27.5% Application Paper, 30% Written Assignments, 41.5% Discussion Postings, 1% Other Course Work.

PubH 3040 Dying and Death in Contemporary Society: Implications for Intervention
2 credit(s); Jr or sr or instr consent Credit will not be granted if credit has been received for: PUBH 6040;
Instructor: Logan, Sarah Rachel
Description: Student may contact the instructor or department for information.

PubH 3052 Practicum in Peer Education II
A-F only, 2 credit(s);
Instructor: Sanem, Julie R
Description: Student may contact the instructor or department for information.

PubH 3106 Making Sense of Health Studies
2 credit(s);
Instructor: Maldonado, George
Description: We spend large sums of money on health (epidemiologic) research. Results of that research reach the public primarily in the form of brief reports via television news, television commercials, newspapers, magazines, books and internet websites. These brief reports should not be read uncritically. This course will teach you how to critically evaluate health news (and the health research reports on which they are based) to make good, well-informed decisions about your health and well-being. In addition, this course will teach you how to conduct your own personal (N-of-1) studies to find out what health strategies work for you (for example, what weight-loss tips work best for you personally).
All of this will be done in the context of recent news reports that are of interest to college students.
This is a self-contained class with no prerequisites. No previous background in math or statistics is needed.
This course is taught by scientists who are experts in the methods of epidemiology, who have published extensively in the scientific literature on the methods of epidemiology, and who have been teaching this topic for many years.
This course satisfies a core-course requirement for the Public Health minor.

Style: 90% Lecture, 10% Film/Video.
Grading: 50% mid exam, 50% final exam.

PubH 3350 Epidemiology: People, Places, and Disease
2 credit(s);
Instructor: Nguyen, Ruby H.N.
Description: We spend large sums of money on health (epidemiologic) research. Results of that research reach the public primarily in the form of brief reports via television news, television commercials, newspapers, magazines, books and internet websites. These brief reports should not be read uncritically. This course will teach you how to critically evaluate health news (and the health research reports on which they are based) to make good, well-informed decisions about your health and well-being. In addition, this course will teach you how to conduct your own personal (N-of-1) studies to find out what health strategies work for you (for example, what weight-loss tips work best for you personally).
All of this will be done in the context of recent news reports that are of interest to college students.
This is a self-contained class with no prerequisites. No previous background in math or statistics is needed.
This course is taught by scientists who are experts in the methods of epidemiology, who have published extensively in the scientific literature on the methods of epidemiology, and who have been teaching this topic for many years.
This course satisfies a core-course requirement for the Public Health minor.

Style: 60% Lecture, 5% Film/Video, 10% Discussion, 25% Guest Speakers.
Grading: 25% mid exam, 25% final exam, 10% reports/papers, 10% special projects, 20% quizzes, 10% in-class presentation.
PubH 3561 Environmental Health and Environmental Justice
A-F only, 3 credit(s); Meets CLE req of Environment; meets CLE req of Social Sciences
Instructor: Sage PhD, Starr Kelly
Description: Student may contact the instructor or department for information.

PubH 3601 Maternal and Child Health Global Public Health Issues
A-F only, 2 credit(s);
Instructor: Bonilla, Zobeida E.
Description: Student may contact the instructor or department for information.

PubH 3639 Prevention: Theory, Practice, and Application in Public Health Services
3 credit(s);
Instructor: Hennrikus, Deborah Jane
Description: Student may contact the instructor or department for information.

PubH 3801 Health Economics and Policy
3 credit(s); Course on microeconomics, course on basic statistics; Credit will not be granted if credit has been received for: APEC 3801;
Instructor: Jonk, Yvonne C
Description: This course examines the economics of health care markets, and aims to further enhance your understanding of real world problems faced by consumers and producers of health care services. The course builds on basic microeconomic principles of the supply and demand for health, health care, and health insurance, and also explores the role of government. Both theoretical models and empirical applications will be discussed. The course will be a combination of lecture and class discussion, with students leading some of the discussion. Readings will come from textbooks, journal articles, the media, and information found on the Internet. Students are expected to read the assignments before class and be prepared to discuss the readings.
Style: 75% Lecture, 25% Discussion.
Grading: 45% mid exam, 20% final exam, 15% quizzes, 5% class participation, 15% problem solving.
Exam Format: short answer, problem solving, essay, and multiple choice questions

PubH 3807 Global Health, Relief, Development and Religious and Non-religious NGOs
3 credit(s), max credits 6;
Instructor: Allison, Kirk Charles
Description: Student may contact the instructor or department for information.

PubH 3893 Directed Study: Health Services Research and Policy
1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: Allison, Kirk Charles
Description: Student may contact the instructor or department for information.

PubH 3955 Using Policy to Address Child & Adolescent Obesity Prevention
1 credit(s);
Instructor: Larson, Nicole I
Description: Student may contact the instructor or department for information.

PubH 5231 Emergency Preparedness: A Public Health Perspective
A-F only, 2 credit(s);
Instructor: Kircher, Amy
Description: Student may contact the instructor or department for information.

PubH 6000 Topics: Community Health Education: Obesity and Eating Disorder Intervention
2 credit(s), max credits 80, 20 completions allowed;
Instructor: Linde, Jennifer A
Description: This course will examine the obesity epidemic, eating disorders, and prevention and treatment approaches at multiple levels (individual, social, environmental, and policy). Links between obesity and eating disorders will also be explored. This course meets Health Behavior and Policy Intervention course requirements for Community Health Promotion students in the School of Public Health. As a result of taking this class, students will: 1. Gain an understanding of the rise of the obesity epidemic, changes in obesity rates over time, and prevalence and assessment of eating disorders. 2. Learn about and analyze prevention and intervention initiatives at individual, social, environmental, and policy levels. 3. Apply knowledge gained in prevention or intervention by critical examination of intervention approaches from at least two levels (individual, social, environmental, policy). 4. Gain an understanding of potential links between obesity and eating disorders.
disorders from etiological and treatment perspectives. 5. Tackle current and potentially controversial topics in obesity or eating disorder prevention and intervention.

**Style:** 60% Lecture, 20% Discussion, 10% Small Group Activities, 10% Student Presentation. Each 2-hour class period will be split between lecture and discussion, with one class set aside for intensive discussion and one class set aside for in-class presentations.

**Grading:** 45% reports/papers, 5% attendance, 20% reflection paper, 25% in-class presentation, 5% class participation.

**PubH 6003 Fundamentals of Alcohol and Drug Abuse for Teacher Education**

1 credit(s); Master of education student or instr consent Credit will not be granted if credit has been received for: PUBH 3001;

**Instructor:** Matson, Emily Ann

**Description:** PubH 6003 is a course designed to meet the legislative requirement for teacher licensure in the state of Minnesota. This course is completely online, but is not an independent study course. Interactions are asynchronous. However, there are set due dates for discussion postings and assignments. The course consists of 14 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 identifying resources related to incidence and prevalence of substance use and abuse, role of chemical use on development, prevention issues and interventions, including an emphasis on high-risk populations. Prerequisites: M.Ed. student or Addiction Studies student. All other students should consult with the instructor, Emily Matson (mats0166@umn.edu), for a permission number. Credit will not be granted if credit has been received for: PubH 3002, 3003, 3004, 3005, 3032, 3033, 5003, or 5023. 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: http://digitalcampus.umn.edu/apply/online-student-resources.html. All class communications will be sent to students’ official U of M email accounts only. Students should check their U of M email account frequently throughout the semester as that is how the students, the instructor, and the TA will communicate. Questions should be sent to pubh3005@umn.edu. Students may access the course website after 1:00am on the first day of the semester. Going through the lessons and completing the readings, assignments and quizzes will require approximately 45 hours of effort throughout the term.

**Style:** 100% Web Based. Students access all lessons and readings via the Moodle course site. Going through the lessons and completing the readings, assignments and quizzes will require approximately 45 hours of effort throughout the term.

**Grading:** 27.5% Application Paper 30% Written Assignments 41.5% Discussion Postings 1% Other Course Work This is not an independent study course. There are due dates for assignments and discussion postings. Late work will be penalized.

**PubH 6020 Fundamentals of Social and Behavioral Science**

A-F only, 3 credit(s), max credits 6;

**Instructor:** Jones-Webb, Rhonda Jean

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

**PubH 6034 Program Evaluation for Public Health Practice**

3 credit(s); [[Community Health Education or Maternal/Child Health or Public Health Nutrition] MPH major] or instr consent Credit will not be granted if credit has been received for: PUBH 6852;

**Instructor:** Neumark-Sztainer, Dianne Ruth

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

**PubH 6040 Dying and Death in Contemporary Society: Implications for Intervention**

2 credit(s); [Grad or professional school] student or instr consent Credit will not be granted if credit has been received for: PUBH 3040;

**Instructor:** Logan, Sarah Rachel

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

**PubH 6045 Skills for Policy Development**

1 credit(s);

**Instructor:** Toomey, Traci Louise

**Description:** Develop skills that will help you in any professional position! Learn how to give a media interview and oral testimony, write an editorial, prepare an effective fact sheet, and meet with an elected official. Practice these important skills in a supportive and fun environment. These skills can help set you apart from other job applicants! Class meetings will include a combination of lectures, guest speakers, and skill-development sessions. Students will be expected to actively participate. 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/or interest in developing skills important to all public health professionals. This course serves as the capstone course for the SPH policy concentration.
Tobacco and alcohol use are the leading causes of death in the U.S. and globally. Tobacco and alcohol use are the leading causes of death in the U.S. and globally.
are associated with health problems such as cardiovascular disease, stroke, and some cancers. In this course, we focus on multilevel strategies in the tobacco and alcohol fields—policy, community, school and/or individual—to reduce the burden of tobacco and alcohol problems locally, nationally, and globally. The course includes a variety of formats: seminar style discussion of readings, short lectures, student presentations, and field trips. The course is designed for public health students. Students in other health or human professions are also welcome (e.g., nursing, medicine, social work). Consideration will be given to undergraduates on a case by case basis.

PubH 6100 Topics: Environmental Health: Culminating Experience: Urban Ecosystems
2 credit(s), max credits 20, 20 completions allowed;
Instructor: Lee PhD, Petrona
Description: This course is intended for students who are interested in integrating their knowledge from coursework and other experiences for application to a practical project for a real world client. The course provides experience in conducting research, preparing documents, interacting with practitioners, elected and appointed officials, and stakeholders. Students will also collaborate with students from other programs who have different backgrounds and areas of expertise. Students will use their research, writing, presentation, and interviewing skills as part of this course. Students who complete this course will meet the culminating experience criteria for the MPH.

PubH 6100 Topics: Environmental Health: Theory, Practice Foodborne Outbreak Investigation
1 credit(s), max credits 20, 20 completions allowed;
Instructor: Hedberg, Craig W
Description: Student may contact the instructor or department for information.

PubH 6100 Topics: Environmental Health: Culminating Experience: Urban Ecosystems
2 credit(s), max credits 20, 20 completions allowed;
Instructor: Simcik, Matt
Description: This course is intended for students who are interested in integrating their knowledge from coursework and other experiences for application to a practical project for a real world client. The course provides experience in conducting research, preparing documents, interacting with practitioners, elected and appointed officials, and stakeholders. Students will also collaborate with students from other programs who have different backgrounds and areas of expertise. Students will use their research, writing, presentation, and interviewing skills as part of this course. Students who complete this course will meet the culminating experience criteria for the MPH.

PubH 6101 Environmental Health
A-F only, 2 credit(s);
Instructor: Toscano Jr PhD, William A
Description: This course explores the interaction between the environment and humans. The envirome covers all aspects of the environment including physical, psychosocial, nutritional and chemical environment. How he environment affects human health is discussed. Principles of environmental health relating to macro and micro environments and products consumed or used by people. Global climate change and its effects on human health are discussed.
Style: 50% Lecture, 10% Small Group Activities, 30% Student Presentation, 10% Guest Speakers.
Grading: 50% reports/papers, 10% attendance, 25% in-class presentation, 15% class participation.

PubH 6102 Issues in Environmental and Occupational Health
A-F only, 2 credit(s); Public health [MPH or MHA or certificate] student or health journalism MA major or nursing MS student or instr consent Credit will not be granted if credit has been received for: PUBH 3102;
Instructor: Lee PhD, Petrona
Description: Student may contact the instructor or department for information.

PubH 6105 Environmental and Occupational Health Policy
A-F only, 2 credit(s);
Instructor: McGovern, Patricia Marie
Description: Student may contact the instructor or department for information.

PubH 6112 Environmental Health Risk Assessment: Application to Human Health Risks from Exposure to Chemicals
2 credit(s);
Instructor: Wattenberg, Elizabeth Vaughn
Description: This course will provide students with a general survey of risk assessment as it is used in environmental health regulatory decision-making. This course will address the basic components and applications of environmental health risk assessment, including exposure assessment, hazard identification, dose-response evaluation, and risk characterization. The major goal of this course is to introduce students to the real world applications of environmental
health risk assessment, including the associated complexities, challenges, and controversies.

PubH 6120 Injury Prevention in the Workplace, Community, and Home
2 credit(s);
Instructor: Gerberich PhD, Susan Goodwin
Description: Injury Epidemiology. Analyses of major injury problems, affecting the public in the workplace, community, and home, using the epidemiologic model and conceptual framework; emphasis on strategies/program development for prevention and control. For students involved in the field of Occupational Health and Safety, this course provides a foundation essential to the development of programs for Occupational Injury Prevention and Control.

PubH 6123 Violence Prevention and Control: Theory, Research, and Application
2 credit(s);
Instructor: Gerberich PhD, Susan Goodwin
Description: Student may contact the instructor or department for information.

PubH 6130 Occupational Medicine: Principles and Practice
S-N only, 2 credit(s);
Instructor: Mandel, Jeffrey H
Description: The course focuses on occupational and environmental diseases, their causes and preventive strategies. There is an emphasis on multi-disciplinary approaches to evaluating these diseases in environmental and workplace settings. Diseases are covered within organ systems impacted by common occupational and environmental exposures. Respiratory, skin, musculoskeletal, hematological systems and others are covered. Examples used in the class include assessment and management issues involving lead, asbestos, chlorinated solvents, silica, halogenated organic compounds and others. An emphasis is placed on multi-disciplinary disease-related problem solving. The course is designed for students from multiple disciplines and involves classwork which emphasizes interactions of the occupational health team in its efforts to prevent occupational/environmental illnesses.
Style: 30% Lecture, 5% Film/Video, 20% Discussion, 15% Small Group Activities, 10% Student Presentation, 20% Guest Speakers.
Grading: 30% mid exam, 20% special projects, 30% additional semester exams, 10% attendance, 10% class participation.

PubH 6133 Global Health Seminar
S-N only, 1 credit(s);
Instructor: Alexander, Bruce H
Description: Student may contact the instructor or department for information.

PubH 6140 Occupational and Environmental Epidemiology
2 credit(s);
Instructor: Church, Timothy Robert
Description: Student may contact the instructor or department for information.

PubH 6150 Interdisciplinary Evaluation of Occupational Health and Safety Field Problems
3 credit(s);
Instructor: Hunt, Catherine M
Description: Student may contact the instructor or department for information.

PubH 6154 Climate Change and Global Health
3 credit(s);
Instructor: Simcik, Matt
Description: Student may contact the instructor or department for information.

PubH 6160 Systems Toxicology
3 credit(s);
Instructor: Peterson, Lisa Ann
Description: Student may contact the instructor or department for information.

PubH 6173 Exposure to Physical Agents
2 credit(s);
Instructor: Raynor, Peter Cameron
Description: Physical agents in the workplace include ionizing and non-ionizing radiation, noise, temperature extremes, and poor ergonomic conditions. Occupational health specialists should be able to recognize physical agents, assess exposure to the agents, determine when the agents present a hazard to workers, and recommend strategies for controlling
the exposure, if necessary. This course will survey a variety of physical agents commonly found in workplaces. Several guest lecturers especially familiar with certain of these agents will share their expertise with participants. In addition, students will be able to see and try out instruments used to measure exposure to many of the hazards. The course will include lessons presented by students in groups in which they will research a type of physical agent not otherwise considered during the course and teach the rest of the class about their findings.

PubH 6175 Environmental Measurements Laboratory
A-F only, 2 credit(s);
Instructor: Simcitk, Matt
Description: Student may contact the instructor or department for information.

PubH 6182 Emerging Infectious Disease: Current Issues, Policies, and Controversies
3 credit(s);
Instructor: Osterholm, Michael T
Description: Student may contact the instructor or department for information.

PubH 6210 Public Health Medicine Seminar
S-N only, 1 credit(s);
Instructor: Lohman MD, William H
Description: Student may contact the instructor or department for information.

PubH 6303 Clinical Research Project Seminar
S-N only, 2 credit(s);
Instructor: Luepker MD, Russell V
Description: Student may contact the instructor or department for information.

PubH 6320 Fundamentals of Epidemiology
A-F only, 3 credit(s);
Instructor: Punyko, Judy
Description: Student may contact the instructor or department for information.

PubH 6320 Fundamentals of Epidemiology
A-F only, 3 credit(s);
Instructor: Lazovich, DeAnn
Description: Student may contact the instructor or department for information.

PubH 6325 Data Processing with PC-SAS
1 credit(s);
Instructor: Oakes, Michael
Description: The aim of this course is to introduce School of Public Health (SPH) students to methods for processing existing data sources in SAS. This time-intensive short course emphasizes hands-on and otherwise practical approaches to prestatistical data processing and analysis with PC-SAS statistical software on a PC with a MS Windows operating system. The course is basic and introductory. The intended audience is public health masters and doctoral students but others are welcome.

PubH 6342 Epidemiologic Methods II
3 credit(s);
Instructor: Pankow, Jim
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);
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 6344 Research Methods: Application for the Culminating Experience
PubH 6363 Design and Analysis of Group-Randomized Trials in Epidemiology
2 credit(s);
Instructor: Oakes, Michael
Description: This course provides instruction in the design and analysis of group-randomized trials (GRTs). GRTs are different from "regular" randomized clinical trials (RCTs) in that instead of individual persons, groups (e.g., schools, cities, hospitals) are the unit of randomization. This often provides great benefit but raises some slippery statistical issues. This course covers the statistical, practical, and ethical issues of GRTs. The course is designed for advanced students in health-related fields (e.g., social science; education) who plan to pursue a career in research.
Style: 30% Lecture, 40% Discussion, 30% Laboratory.
Grading: 20% quizzes, 60% written homework, 10% attendance, 10% class participation.

PubH 6381 Genetics in Public Health
2 credit(s);
Instructor: Demerath, Ellen Wrchota
Description: This course will provide an introduction to public health genetics. Topics will include an overview of human genetic and genomic variation, genetic epidemiology (study designs and methods used in gene discovery and gene characterization), gene-environment interaction, epigenetics, genetic testing in public health, and the ethical, social, and legal implications of genetic testing and genomic research. Diseases of primary focus will include cancers, obesity, diabetes, and cardiovascular disease, but will also include coverage of other diseases of interest to the class. A collaborative learning environment is encouraged, in which the students as well as the instructor actively contribute their experience and knowledge to the class.
Style: 50% Lecture, 10% Discussion, 20% Student Presentation, 20% Guest Speakers.
Grading: 25% mid exam, 25% reports/papers, 5% quizzes, 10% attendance, 25% in-class presentation, 10% class participation.

PubH 6385 Epidemiology and Control of Infectious Diseases
2 credit(s);
Instructor: Lifson, Alan Raymond
Description: The purpose of this graduate level course is to learn more about the principles and practice of infectious disease epidemiology, including how communicable diseases and their control affect public health locally, nationally and internationally. We will explore infectious diseases from a variety of different perspectives, in different institutions, and as it affects different populations. Learning objectives for this course include greater appreciation and understanding of: (1) General principles of infectious disease epidemiology, including: Principles of Infectious Diseases; Outbreak Investigation; Role of the Public Health Laboratory; Disease Surveillance; Modeling Infectious Disease Data, Principles of Screening and Screening Tests; (2) Major infectious diseases and modes of transmission, including: Food-borne Illness; Zoonotic Diseases; Tuberculosis; Influenza; Vector-Borne Diseases; Malaria; Other Parasitic Diseases; HIV/AIDS; Sexually Transmitted Diseases; Viral Hepatitis; Antibiotic Resistant Bacteria; (3) Different control and evaluation strategies for infectious diseases, including: Vaccination; Nosocomial Infections; Behavior Change and HIV/STDs; Blood Safety; Immigrant and Refugee Health; International Research in Resource Poor Settings; Critical Reading of Medical Literature
Style: 90% Lecture, 10% Discussion.
Grading: 84% reports/papers, 16% attendance.

PubH 6387 Cancer Epidemiology
2 credit(s);
Instructor: Nelson, Heather Hammond
Description: Student may contact the instructor or department for information.

PubH 6414 Biostatistical Methods I
A-F only, 3 credit(s); [Public hth [MPH or certificate] student or environmental hth [MS or PhD]] or instr consent
Credit will not be granted if credit has been received for: PUBH 6450;
Instructor: Le, Laura Jean
Description: Student may contact the instructor or department for information.

PubH 6415 Biostatistical Methods II
3 credit(s);
Instructor: Telke, Susan Elizabe
Description: Statistical computing using SAS or R (in-class version of the course), or using R (online version of the
regression).

PubH 6450 Biostatistics I
A-F only, 4 credit(s); [College-level algebra, health sciences grad student] or instr consent Credit will not be
granted if credit has been received for: PUBH 6414;
Instructor: Leduc, Robert Edgar
Description: Student may contact the instructor or department for information.

PubH 6451 Biostatistics II
4 credit(s);
Instructor: Thomas, William
Description: PubH 6451 is the second semester of an introduction to biostatistics, statistical methods applied in the health
sciences. This course covers a broad range of methods, with a focus on their practical use and interpretation in clinical
trials and observational studies. The theme of the course is adjusting comparisons of study groups with regression or
stratification. A paper from a health journal is assigned as part of each homework: students repeat the analysis and critique
the methods and results. Statistical analyses will be performed in SAS, with discussion of basic programming elements and
output for the homework. The course covers methods for working with response measurements that are continuous (t-
tests, linear regression, ANOVA), that occur in categories (risk, rates, odds, logistic and Poisson regression), and that
record time until an event occurs (survival data, proportional hazards regression).
Style: 100% Lecture.
Grading: 50% mid exam, 25% final exam, 25% written homework. "Mid Exam" = 2 exams during semester, 25% each
Exam Format: In-class closed-book exams. Students may use hand calculator and one page of notes.

PubH 6451 Biostatistics II
4 credit(s);
Instructor: Telke, Susan Elizabe
Description: Student may contact the instructor or department for information.

PubH 6527 Healthcare Leadership and Effecting Change
A-F only, 2 credit(s);
Instructor: White, Katie Marie
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);
Instructor: Hart, Gregory Wayne
Description: Student may contact the instructor or department for information.

PubH 6547 Health Care Human Resources Management
A-F only, 2 credit(s);
PubH 6553 Health Care Management Ethics
A-F only, 1 credit(s), max credits 2;
Instructor: Drill-Mellum, Richard D
Description: Student may contact the instructor or department for information.

PubH 6554 Healthcare Strategy and Marketing
A-F only, 2 credit(s);
Instructor: Hillestad, Steven G
Description: Student may contact the instructor or department for information.

PubH 6557 Health Finance I
3 credit(s);
Instructor: Fosbury, Lawrence R
Description: Student may contact the instructor or department for information.

PubH 6570 Healthcare Administration: Negotiation Strategies
A-F only, 1-4 credit(s), max credits 8;
Instructor: Abrams PhD, Lori J
Description: Student may contact the instructor or department for information.

PubH 6571 Leading Performance Improvement in Health Care
A-F only, 2 credit(s);
Instructor: Swensen, Stephen J
Description: Student may contact the instructor or department for information.

PubH 6573 The Nature of Clinical Care
A-F only, 2 credit(s);
Instructor: Marr MD, Thomas J
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);
Instructor: Hart, Gregory Wayne
Description: Student may contact the instructor or department for information.

PubH 6589 Medical Technology Evaluation and Market Research
2 credit(s);
Instructor: Barrette, Eric G
Description: Student may contact the instructor or department for information.

PubH 6596 Legal Considerations in Health Services Organizations
A-F only, 2 credit(s);
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);
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);
Instructor: Bretl, Lynn Rita Muenzenberger
Description: Student may contact the instructor or department for information.

PubH 6634 Advocacy and Children's Rights
**PubH 6673 Grant Writing for Public Health**
1 credit(s); MCH or CHE or PubH Nutr or EPI MPH or instr consent
Credit will not be granted if credit has been received for: PUBH 6051;
Instructor: Hennrikus, Deborah Jane
Description: This class is a hands-on program grant-writing workshop for public health graduate students. Its purpose is to provide students with an overview of the grant-writing process, expose them to different types of funding organizations and types of grant proposals, and give them an opportunity to build grant writing and grant review skills. Please note that the course is not intended to cover research grant proposals.

**PubH 6700 Foundations of Public Health**
3 credit(s);
Instructor: Parsons, Helen Mari
Description: Student may contact the instructor or department for information.

**PubH 6702 Integrative Leadership Seminar**
3 credit(s);
Instructor: White, Katie Marie
Description: This is an interdisciplinary, 3-credit seminar led by co-instructors from multiple schools of the university. Students will: a) learn to recognize and diagnose integrative leadership challenges and opportunities; b) build their own capacities to practice integrative leadership through group work in individualized peer-to-peer coaching in diverse teams and through being exposed to a range of boundary work practices; and c) gain better knowledge of the leadership contexts within their own profession and in other sectors. We emphasize contexts for integrative leadership at five basic levels: within individuals, within and across groups, within and across organizations, within and across sectors, and at the societal scale. Learning occurs through reading foundational materials, personal leadership coaching, engaging extensively with examples from guest speakers and case materials, developing a group capstone project on integrative leadership, and iteratively co-producing an understanding of what integrative leadership is. This course is sponsored by four departments. If PA 5105 shows as full, please check for space under the other departments - MGMT 6402, OLPD 6402, and PubH 6702. They are all for the same class, with the same instructors, meeting at the same time. Every section in all four schools must be filled before any over-ride permission numbers are issued. If all class sections are full, please contact Merrie Benasutti at the Center for Integrative Leadership (624-8300) for a permission number.
Style: 15% Lecture, 20% Discussion, 25% Small Group Activities, 10% Student Presentation, 15% Guest Speakers, 15% Web Based.
Grading: 30% reports/papers, 30% reflection paper, 20% class participation, 20% other evaluation. Participation in class-based learning and discussion - 20% Biweekly reading notes and biweekly reflection notes - 30% Team case study project research, presentation, and report - 30% Integrative leadership peer-to-peer coaching: 20%

**PubH 6711 Public Health Law**
2 credit(s);
Instructor: Barry, Anne M
Description: Student may contact the instructor or department for information.

**PubH 6724 The Health Care System and Public Health**
3 credit(s);
Instructor: Ward, Andrew Clay
Description: I. Course Overview The purpose of this course is to provide students with an overview of the U.S. health care finance and delivery systems within a public health context. To be effective practitioners, public health professionals must be able to link the theory of individual and social determinants of health status and outcomes with the changing structures and organizations of the U.S. health care systems. This course will teach the basic components of the U.S. health care systems, including: The history and development of U.S. health care systems; Financing; The role of public programs (e.g., Medicare and Medicaid), insurers, and employers; Health care delivery systems (e.g., Primary Care, Outpatient and Inpatient services); Integrated and managed care; Long-term care and health care delivery to special populations; The future of U.S. health care systems II. Course Objectives Upon completing this course, students should be able to meet the following objectives: 1. Understand the role that U.S. health care systems play in improving health status. 2. Identify the key components of the U.S. health care delivery systems. 3. Identify funding sources and their relative contributions to health expenditures. 4. Identify major gaps in access to care and the reasons for those gaps. 5. Identify recent trends in U.S.
health care finance and delivery 6. Understand the basic elements of managed and integrated care 7. Describe collaborative methods and approaches to build on existing service delivery systems to maintain or improve the health status of populations III. Reading Materials/Text Books There is one required textbook for this course: Leiyu Shi and Douglas A. Singh, Delivering Health Care in America: A Systems Approach, 5th edition (Burlington, MA: Jones and Bartlett Learning, 2012). ISBN-13: 978-1-4496-2650. This is the most current edition of the book. Earlier editions of the book are different, and their use will not suffice for the course. Please make certain that you have the correct edition of the required book. In addition to this book, there are online readings. Some of the online readings are publicly accessible from any computer with a reliable Internet connection (see section IX of the syllabus for the URLs). Some of the readings come from journals that you can access using the University of Minnesota library system. I have provided complete bibliographical information for these articles. Thus, if you so choose, you can access the online readings via the University of Minnesota library system. Sometimes even if you know the journal name, the author name, the article name, etc., it can be challenging to find articles using the databases provided by the University of Minnesota library. For this reason, I have also included the journal articles as .pdf files on the course Webpage.

Style: 100% Web Based. The course is an entirely online course. All interactions will be either by e-mail or via the course Webpage functions.
Grading: 20% mid exam, 25% final exam, 20% quizzes, 30% written homework, 5% other evaluation. The "Other Evaluation" are Discussion Board postings.
Exam Format: The mid-term examination is a combination of true-false, multiple-choice and essay questions. The final examination is entirely essay questions.

PubH 6727 Health Leadership and Effecting Change
2 credit(s);
Instructor: White,Katie Marie
Description: PubH 6727, Health Leadership and Effecting Change, is designed for students who aspire to leadership roles, especially that of becoming an effective change leader in any public health or health services organization setting or in multisectoral contexts.

PubH 6741 Ethics in Public Health: Professional Practice and Policy
A-F only, 1 credit(s);
Instructor: Mickelsen,Ruth Ann
Description: Public health policy is often the product of controversy. Scientific considerations blend with political and ethical conflicts in public health. Questions of autonomy, liberty, individual rights, power, coercion, justice, discrimination, stigma, community and the common good are central to public health policy and practice and are therefore the basis for the core ethical challenges in public health. This seven-week course will introduce students to public health ethics, with a focus on two central ethical tensions shaping public health policy and practice: (1) allocating resources, and (2) balancing individual and community concerns. In discussing these tensions, we will attend to the important ethical issues of justice and health inequalities. Recognizing that public health graduates will be engaged in policy and practice, the course begins by exploring the ethics of priority setting at both the macro (policy) and micro (practice) levels. The second half of the course will discuss the balancing of individual and community interests as reflected in public health screening, prevention, and health promotion programs, and we will maintain the macro (policy) and micro (practice) distinction previously introduced. The course is designed to flexibly accommodate current pressing topics in public health practice and policy, such as health care reform, obesity, pandemic flu, and other emergent issues. While the focus of this course is on domestic issues in practice and policy, the frameworks and ethical concepts discussed can be applied to international issues, and students may choose an international topic to examine for the concluding course exercise.
Style: 100% Web Based.

PubH 6742 Ethics in Public Health: Research and Policy
A-F only, 1 credit(s);
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);
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. Online section is 100% web based
Grading: 40% mid exam, 45% final exam, 15% attendance.
Exam Format: take-home, open books

PubH 6772 Health Disparities Capstone Seminar
OPT No Aud, 1 credit(s), max credits 2;
Instructor: Call PhD,Kathleen Thiede
Description: Student may contact the instructor or department for information.

PubH 6780 Topics: Public Health Administration and Policy: Applied Quality Improvement Practicum
3 credit(s), max credits 60, 20 completions allowed;
Instructor: Nye,Gerald Thomas
Description: Student may contact the instructor or department for information.

PubH 6780 Topics: Public Health Administration and Policy: Public Health Economics for Decision Makers
2 credit(s), max credits 60, 20 completions allowed;
Instructor: Feldman,Roger D
Description: Student may contact the instructor or department for information.

PubH 6800 Topics: Health Services Research and Policy: Introduction to Public Health Informatics Systems
2 credit(s), max credits 80, 20 completions allowed;
Instructor: Rajamani,Sripriya
Description: Student may contact the instructor or department for information.

PubH 6800 Topics: Health Services Research and Policy: Community-Based Participatory Research (CBPR)
2 credit(s), max credits 80, 20 completions allowed;
Instructor: Jordan,Catherine M
Description: Student may contact the instructor or department for information.

PubH 6802 Managing Electronic Health Information
3 credit(s);
Instructor: Wholey,Douglas R
Description: Managing health information is a central function of health care organizations. Information is used for managing population health, profiling providers, and measuring quality. This course describes the organizational context of health information. Sources and types of health information, organizational processes affecting information quality, consistency, completeness, and accuracy, methods for organizing information, and use of information will be discussed. Relational data theory will be used to describe the structure of information and Structured Query Language (SQL) will be used to create and query databases. Students will be introduced to the basic programming skills necessary to manage data in research projects. Programming aspects of the course will use SQL procedure in the SAS language. "...in an information-rich world, the wealth of information means a dearth of something else: a scarcity of whatever it is that information consumes. What information consumes is rather obvious: it consumes the attention of its recipients. Hence a wealth of information creates a poverty of attention and a need to allocate that attention efficiently among the overabundance of information sources that might consume it" Herbert A. Simon, 1971, "Designing Organizations for an Information-Rich World", in Martin Greenberger, Computers, Communication, and the Public Interest, Baltimore, Col. 70, MD: The Johns Hopkins Press, p. 187-202).

PubH 6803 Conducting a Systematic Literature Review
OPT No Aud, 3 credit(s);
Instructor: Butler,Mary Elizabeth
Description: Student may contact the instructor or department for information.

PubH 6807 Global Health Relief, Development, and Religious and Non-Religious NGOs
3 credit(s), max credits 6;
Instructor: Allison,Kirk Charles
Description: Student may contact the instructor or department for information.

PubH 6809 Advanced Methods in Health Decision Science
OPT No Aud, 3 credit(s);
Instructor: Kuntz,Karen M
Description: Student may contact the instructor or department for information.

PubH 6810 Survey Research Methods
OPT No Aud, 3 credit(s);
Instructor: Johnson PhD,Pamela Jo
Description: Student may contact the instructor or department for information.
PubH 6835 Principles of Health Policy
2 credit(s);
Instructor: Kozhimannil, Katy Backes
Description: The purpose of this course is to introduce students to the policy environment that influences and shapes public health and the provision of health care services, to enhance understanding of the historical and political context of health policy, to develop strategies for analysis of health policy issues, and to communicate effectively in the policy environment. Through lectures, readings, collaborative debate and discussion, oral presentation, and written work, students will develop the background and skills to approach a range of problems in the interdisciplinary field of public health, where the major policy issues are constantly evolving. As a result, this course aims to convey not just specific facts, but to help students develop the ability and confidence to critically assess current health policy issues in a thoughtful, comprehensive, and rigorous manner. While the course content focuses on the U.S. health care environment, policy analytic and communication skills are presented in a way that is transferrable to other contexts.

PubH 6845 Using Demographic Data for Policy Analysis
A-F only, 3 credit(s);
Instructor: Karaca Mandic, Pinar
Description: Student may contact the instructor or department for information.

PubH 6852 Program Evaluation in Health and Mental Health Settings
A-F only, 2 credit(s); Credit will not be granted if credit has been received for: PUBH 6034;
Instructor: Garrard, Judith M
Description: Student may contact the instructor or department for information.

PubH 6855 Medical Sociology
3 credit(s);
Instructor: McAlpine, Donna D
Description: Student may contact the instructor or department for information.

PubH 6862 Cost-Effectiveness Analysis in Health Care
3 credit(s);
Instructor: Nyman, John A.
Description: This course is intended to give students an overview of the theory and applications of cost-benefit analysis, cost-effectiveness analysis, and related forms of decision analysis in the health care sector. The topics covered are: the theoretical economic basis for this analysis, comparison of the various forms of decision analysis, measures of costs and related controversies, measures of outcomes including health status and health-related quality of life, assigning monetary values to outcomes, the value of a human life and of quality adjusted life years, discounting, uncertainty in cost-effectiveness analysis, Markov models, study design, and standardized reporting of results. Students also learn TreeAge Pro, a decision-analytic software package and review a number of classic applications from the literature. The course occasionally uses conventional microeconomic analytical and statistical tools. While it is not required, it is recommended that students have taken a microeconomics course. Because not all have taken such a course, one lecture is spent at the beginning of the course familiarizing students with basic microeconomic analytical tools.
Style: 90% Lecture, 10% Discussion.
Grading: 33% mid exam, 33% final exam, 17% quizzes, 17% written homework.

PubH 6864 Conducting Health Outcomes Research
3 credit(s);
Instructor: Radosevich PhD, David M
Description: Student may contact the instructor or department for information.

1 credit(s), max credits 80, 20 completions allowed;
Instructor: Larson, Nicole l
Description: Student may contact the instructor or department for information.

PubH 6906 Global Nutrition
2 credit(s);
Instructor: Himes, John H
Description: Student may contact the instructor or department for information.

PubH 6910 Critical Review of Research in Public Health Nutrition
1 credit(s);
PubH 6914 Community Nutrition Intervention
3 credit(s);
Instructor: Neumark-Sztainer, Dianne Ruth
Description: This class provides students with the tools for developing community nutrition interventions. Students will learn about utilizing behavioral theory, conducting needs assessments, writing program objectives, developing intervention strategies, evaluating program implementation and effectiveness, planning a budget, and writing grant proposals. Students pick their projects based on their personal interests and work in small groups. Previous examples include: obesity prevention for school-aged children, eating disorder prevention for adolescent girls; increasing whole-grain consumption in college students, and increasing fruit and vegetable intake in preschoolers.
Style: 40% Lecture, 10% Discussion, 20% Small Group Activities, 10% Student Presentation, 20% Guest Speakers.
Grading: 25% reports/papers, 50% special projects, 25% class participation.

PubH 6933 Nutrition and Chronic Diseases
2 credit(s);
Instructor: Harnack, Lisa Joan
Description: Student may contact the instructor or department for information.

PubH 7094 Culminating Experience: Community Health Promotion
S-N only, 1-6 credit(s), max credits 6;
Instructor: Jones-Webb, Rhonda Jean
Description: Student may contact the instructor or department for information.

PubH 7096 Field Experience: Community Health Promotion
S-N only, 1-6 credit(s), max credits 6;
Instructor: Linde, Jennifer A
Description: Student may contact the instructor or department for information.

PubH 7193 Directed Study: Environmental Health
OPT No Aud, 1-4 credit(s), max credits 20, 20 completions allowed;
Instructor: McGovern, Patricia Marie
Description: Student may contact the instructor or department for information.

PubH 7193 Directed Study: Environmental Health
OPT No Aud, 1-4 credit(s), max credits 20, 20 completions allowed;
Instructor: Osterholm, Michael T
Description: Student may contact the instructor or department for information.

PubH 7193 Directed Study: Environmental Health
OPT No Aud, 1-4 credit(s), max credits 20, 20 completions allowed;
Instructor: Ramachandran, Gurumurthy
Description: Student may contact the instructor or department for information.

PubH 7193 Directed Study: Environmental Health
OPT No Aud, 1-4 credit(s), max credits 20, 20 completions allowed;
Instructor: Maldonado, George
Description: Student may contact the instructor or department for information.

PubH 7193 Directed Study: Environmental Health
OPT No Aud, 1-4 credit(s), max credits 20, 20 completions allowed;
Instructor: Raynor, Peter Cameron
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: McGovern, Patricia Marie
Description: Student may contact the instructor or department for information.
PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Osterholm, Michael T
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Hedberg, Craig W
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Mandel, Jeffrey H
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Nachreiner, Nancy Martha
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Wattenberg, Elizabeth Vaughn
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Allwood, Paul Bancroft
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Simcik, Matt
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Ramachandran, Gurumurthy
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Peterson, Lisa Ann
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Maldonado, George
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Raynor, Peter Cameron
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Alexander, Bruce H
Description: Student may contact the instructor or department for information.
PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Toscano Jr PhD, William A
Description: Student may contact the instructor or department for information.

PubH 7194 Culminating Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 25, 5 completions allowed;
Instructor: Stepanov, Irina
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: McGovern, Patricia Marie
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Osterholm, Michael T
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Hedberg, Craig W
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Olson, Debra Kay
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Mandel, Jeffrey H
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Medus PhD, Carlota
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Wattenberg, Elizabeth Vaughn
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Allwood, Paul Bancroft
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Simcik, Matt
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Ramachandran, Gurumurthy
Description: Student may contact the instructor or department for information.
PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Maldonado, George
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Raynor, Peter Cameron
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Alexander, Bruce H
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Toscano Jr PhD, William A
Description: Student may contact the instructor or department for information.

PubH 7196 Field Experience: Environmental Health
S-N only, 1-5 credit(s), max credits 5, 5 completions allowed;
Instructor: Stepanov, Irina
Description: Student may contact the instructor or department for information.

PubH 7200 Topics: Public Health Practice: Global Health Institute - Thailand
OPT No Aud, 4 credit(s), max credits 20, 20 completions allowed;
Instructor: Olson, Debra Kay
Description: Student may contact the instructor or department for information.

PubH 7250 Designing and Conducting Focus Group Interviews
OPT No Aud, 1 credit(s);
Instructor: Krueger, Richard A
Description: Student may contact the instructor or department for information.

PubH 7280 Public Health Advocacy Through Professional Organizations
S-N only, 0.5-2 credit(s), max credits 2;
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, 0.5-2 credit(s), max credits 2;
Instructor: Hueston DVM, William D.
Description: Student may contact the instructor or department for information.

PubH 7291 Independent Study: Public Health Practice
S-N only, 0.5-2 credit(s), max credits 2;
Instructor: Waters, Katherine Cecilia
Description: Student may contact the instructor or department for information.

PubH 7294 Master's Project: Public Health Practice
S-N only, 0.5-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Waters, Katherine Cecilia
Description: Student may contact the instructor or department for information.

PubH 7296 Field Experience: Public Health Practice
S-N only, 0.5-6 credit(s), max credits 24, 4 completions allowed; Public health practice MPH major, instr consent
Credit will not be granted if credit has been received for: CVM 6516;
Instructor: Waters, Katherine Cecilia
PubH 7391 Independent Study: Epidemiology
1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Ross, Julie A
Description: Student may contact the instructor or department for information.

PubH 7394 Culminating Experience: Epidemiology
S-N only, 1-6 credit(s), max credits 6;
Instructor: Ross, Julie A
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;
Instructor: Anderson PhD, Kristin Ellen
Description: Student may contact the instructor or department for information.

PubH 7402 Biostatistics Modeling and Methods
4 credit(s);
Instructor: Guan, Weihua
Description: Student may contact the instructor or department for information.

PubH 7406 Advanced Regression and Design
4 credit(s);
Instructor: Chu, Haitao
Description: 

PubH 7420 Clinical Trials: Design, Implementation, and Analysis
3 credit(s);
Instructor: Neaton, Jim
Description: Student may contact the instructor or department for information.

PubH 7440 Introduction to Bayesian Analysis
3 credit(s);
Instructor: Bandyopadhyay, Dipankar
Description: Student may contact the instructor or department for information.
Instructor: Rudser,Kyle  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Thomas,William  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Neaton,Jim  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Hodges,James Steven  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Reilly,Cavan Sheerin  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Pan,Wei  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Chu,Haitao  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Luo,Xianghua  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Vock,David M  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Rudser,Kyle  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Koopmeiners,Joe  
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics  
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Guan,Weihua  
Description: Student may contact the instructor or department for information.
PubH 7494 Culminating Experience: Biostatistics
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Ho,Yen-Yi
Description: Student may contact the instructor or department for information.

PubH 7494 Culminating Experience: Biostatistics
S-N only, 1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Hughes,John
Description: Student may contact the instructor or department for information.

PubH 7535 Managerial Accounting for Health Services
A-F only, 3 credit(s);
Instructor: David,Elizabeth Blair
Description: Student may contact the instructor or department for information.

PubH 7541 Statistics for Health Management Decision Making
OPT No Aud, 3 credit(s);
Instructor: Abraham,Jean Marie
Description: Student may contact the instructor or department for information.

PubH 7547 Health Care Human Resource Management
A-F only, 2 credit(s);
Instructor: Preston,Jennifer McKinnon
Description: Student may contact the instructor or department for information.

PubH 7551 Principles of Management in Health Services Organizations
A-F only, 2 credit(s);
Instructor: Begun,James Warren
Description: Student may contact the instructor or department for information.

PubH 7556 Health and Health Systems
A-F only, 2 credit(s);
Instructor: Christianson,Jon B
Description: Student may contact the instructor or department for information.

PubH 7564 Private Purchasers of Health Care
A-F only, 2 credit(s);
Instructor: Christianson,Jon B
Description: Student may contact the instructor or department for information.

PubH 7565 Health Care Delivery, Design & Innovation
A-F only, 2 credit(s);
Instructor: Armbruster,Ryan Richard
Description: Student may contact the instructor or department for information.

PubH 7566 The Henry Capstone: Core Concepts in Managing Health Care Organizations
S-N only, 1-2 credit(s), max credits 2, 1 completion allowed;
Instructor: Gilliam,Thomas Richard
Description: Student may contact the instructor or department for information.

PubH 7572 Health Care Strategies in Competitive Markets
A-F only, 2 credit(s);
Instructor: Bauer,Paul J
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 8;
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);
Instructor: Grant, Leslie Alan
Description: Student may contact the instructor or department for information.

PubH 7591 Independent Study: Health Care Administration
1-4 credit(s), max credits 20, 20 completions allowed;
Instructor: Hart, Gregory Wayne
Description: Student may contact the instructor or department for information.

PubH 7596 Clerkship in Health Care Administration
A-F only, 2 credit(s);
Instructor: Hart, Gregory Wayne
Description: Student may contact the instructor or department for information.

PubH 7694 Culminating Experience: Maternal and Child Health
S-N only, 2-4 credit(s), max credits 4;
Instructor: Stang, Jamie Sue
Description: Student may contact the instructor or department for information.

PubH 7696 Field Experience: Maternal and Child Health
S-N only, 1-4 credit(s), max credits 4;
Instructor: Nguyen, Ruby H.N.
Description: Student may contact the instructor or department for information.

PubH 7784 Master's Project Seminar: PHAP and HSRP&A
A-F only, 1 credit(s), max credits 2;
Instructor: McAlpine, Donna D
Description: Student may contact the instructor or department for information.

PubH 7791 Independent Study: HDIC Seminar
1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Thomas, William
Description: Student may contact the instructor or department for information.

PubH 7791 Independent Study: HDIC Seminar
1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Call PhD, Kathleen Thiede
Description: Student may contact the instructor or department for information.

PubH 7894 MS in Health Services Research, Policy, and Administration Plan B Project
S-N only, 2 credit(s), max credits 4;
Instructor: Blewett, Lynn Ann
Description: Student may contact the instructor or department for information.

PubH 7894 MS in Health Services Research, Policy, and Administration Plan B Project
S-N only, 2 credit(s), max credits 4;
Instructor: Nyman, John A.
Description: Student may contact the instructor or department for information.

PubH 7894 MS in Health Services Research, Policy, and Administration Plan B Project
S-N only, 2 credit(s), max credits 4;
Instructor: Wholey, Douglas R
Description: Student may contact the instructor or department for information.
PubH 7894 MS in Health Services Research, Policy, and Administration Plan B Project
S-N only, 2 credit(s), max credits 4;
Instructor: McAlpine, Donna D
Description: Student may contact the instructor or department for information.

PubH 7894 MS in Health Services Research, Policy, and Administration Plan B Project
S-N only, 2 credit(s), max credits 4;
Instructor: Kuntz, Karen M
Description: Student may contact the instructor or department for information.

PubH 7894 MS in Health Services Research, Policy, and Administration Plan B Project
S-N only, 2 credit(s), max credits 4;
Instructor: Karaca Mandic, Pinar
Description: Student may contact the instructor or department for information.

PubH 7994 Culminating Experience: Public Health Nutrition
S-N only, 1-6 credit(s), max credits 6;
Instructor: Miles, Aida
Description: Student may contact the instructor or department for information.

PubH 7996 Field Experience: Public Health Nutrition
S-N only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Miles, Aida
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;
Instructor: Gerberich PhD, Susan Goodwin
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;
Instructor: Maldonado, George
Description: This seminar course in observational inference is designed for doctoral students in Public Health who are interested in practicing the fundamentals of epidemiologic inference, including methods for designing, analyzing and interpreting epidemiologic studies. (This course is offered every semester.)
Style: 100% Discussion.

PubH 8142 Epidemiologic Uncertainty Analysis
S-N only, 2 credit(s);
Instructor: Maldonado, George
Description: An observed relative risk (RRobs) can be described mathematically as the product of the causal relative risk (RRcausal), a desired effect measure for etiologic epidemiologic studies, and error factors for the impact on study results of imperfections in the design, conduct and analysis of the study (uncontrolled confounding, losses-to-followup, nonrandom subject sampling, subject nonresponse, missing data, exposure and disease measurement error, unjustified statistical model assumptions, and random error). When viewed from this perspective, it becomes clear that RRcausal is not identifiable (i.e., cannot be validly estimated) without making assumptions about the values of the error-factor and random-error terms. A standard quantitative analysis does not account for most study imperfections. It therefore implicitly assumes that the product of the error factors equals 1.0. This standard-practice assumption, however, has neither theoretical nor empirical justification. We therefore advise epidemiologists to replace the standard assumption with more justifiable assumptions about the values of the error-factor terms. These more-justifiable assumptions can be incorporated into a quantitative analysis with uncertainty analysis (also known as bias modeling, probabilistic sensitivity analysis, Monte Carlo sensitivity analysis). We discuss this technique in this class.

PubH 8165 Current Topics in Toxicology
S-N only, 1 credit(s), max credits 2;
Instructor: Toscano Jr PhD, William A
Description: Student may contact the instructor or department for information.

PubH 8166 Experiences in Toxicology Research
PubH 8194 Directed Research: Environmental Health
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Gerberich PhD, Susan Goodwin
Description: Student may contact the instructor or department for information.

PubH 8194 Directed Research: Environmental Health
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Osterholm, Michael T
Description: Student may contact the instructor or department for information.

PubH 8194 Directed Research: Environmental Health
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Ramachandran, Gurumurthy
Description: Student may contact the instructor or department for information.

PubH 8194 Directed Research: Environmental Health
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Toscano Jr PhD, William A
Description: Student may contact the instructor or department for information.

PubH 8342 Advanced Epidemiologic Methods: Applications
3 credit(s);
Instructor: Maclehose, Richard F
Description: Student may contact the instructor or department for information.

PubH 8393 Directed Study: Clinical Research
1-4 credit(s), max credits 20, 20 completions allowed;
Instructor: Duval, Sue
Description: Student may contact the instructor or department for information.

PubH 8412 Advanced Statistical Inference
3 credit(s);
Instructor: Vock, David M
Description: Student may contact the instructor or department for information.

PubH 8442 Bayesian Decision Theory and Data Analysis
3 credit(s);
Instructor: Banerjee, Sudipto
Description: Student may contact the instructor or department for information.

PubH 8446 Advanced Statistical Genetics and Genomics
3 credit(s);
Instructor: Reilly, Cavan Sheerin
Description: Student may contact the instructor or department for information.

PubH 8472 Spatial Biostatistics
3 credit(s);
Instructor: Bandyopadhyay, Dipankar
Description: Student may contact the instructor or department for information.
PubH 8492 Theories of Hierarchical and Other Richly Parametrized Linear Models
A-F only, 3 credit(s);
Instructor: Hodges, James Steven
Description: Student may contact the instructor or department for information.

PubH 8494 Directed Research: Biostatistics
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Eberly, Lynn Elizabeth
Description: Student may contact the instructor or department for information.

PubH 8494 Directed Research: Biostatistics
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Luo, Xianghua
Description: Student may contact the instructor or department for information.

PubH 8494 Directed Research: Biostatistics
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Basu, Saonli
Description: Student may contact the instructor or department for information.

PubH 8494 Directed Research: Biostatistics
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: De Andrade, Mariza
Description: Student may contact the instructor or department for information.

PubH 8800 Topics in Health Services Research and Policy: Cancer Inequities and Cancer interventions
2 credit(s), max credits 20, 20 completions allowed;
Instructor: Call PhD, Kathleen Thiede
Description: Student may contact the instructor or department for information.

PubH 8804 Advanced Quantitative Methods Seminar
A-F only, 3 credit(s), max credits 6;
Instructor: Golberstein, Ezra
Description: Student may contact the instructor or department for information.

PubH 8813 Measurement of Health-Related Social Factors
A-F only, 3 credit(s);
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);
Instructor: Feldman, Roger D
Description: Student may contact the instructor or department for information.

PubH 8830 Writing for Research
OPT No Aud, 2 credit(s);
Instructor: Dowd, Bryan E
Description: Student may contact the instructor or department for information.

PubH 8893 Directed Study: Health Services Research, Policy, and Administration
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Allison, Kirk Charles
Description: Student may contact the instructor or department for information.

PubH 8893 Directed Study: Health Services Research, Policy, and Administration
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Nyman, John A.
Description: Student may contact the instructor or department for information.
PubH 8893 Directed Study: Health Services Research, Policy, and Administration
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Wholey, Douglas R
Description: Student may contact the instructor or department for information.

PubH 8893 Directed Study: Health Services Research, Policy, and Administration
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Enns, Eva
Description: Student may contact the instructor or department for information.

PubH 8894 Directed Research: Health Services Research, Policy, and Administration
1-8 credit(s), max credits 8, 8 completions allowed;
Instructor: Allison, Kirk Charles
Description: Student may contact the instructor or department for information.

PubH 8894 Directed Research: Health Services Research, Policy, and Administration
1-8 credit(s), max credits 8, 8 completions allowed;
Instructor: Nyman, John A.
Description: Student may contact the instructor or department for information.

PubH 8894 Directed Research: Health Services Research, Policy, and Administration
1-8 credit(s), max credits 8, 8 completions allowed;
Instructor: Wholey, Douglas R
Description: Student may contact the instructor or department for information.

PubH 8894 Directed Research: Health Services Research, Policy, and Administration
1-8 credit(s), max credits 8, 8 completions allowed;
Instructor: McAlpine, Donna D
Description: Student may contact the instructor or department for information.

PubH 8894 Directed Research: Health Services Research, Policy, and Administration
1-8 credit(s), max credits 8, 8 completions allowed;
Instructor: Karaca Mandic, Pinar
Description: Student may contact the instructor or department for information.

Radiography
University of Minnesota Rochester

Radi 3102 Radiographic Procedures II
A-F only, 7 credit(s);
Instructor: Anderson, Jill Marie
Description: Student may contact the instructor or department for information.

Radi 3202 Principles of Radiographic Exposure
A-F only, 2 credit(s);
Instructor: Anderson, Jill Marie
Description: Student may contact the instructor or department for information.

Radi 3302 Clinical Practicum II
A-F only, 5 credit(s);
Instructor: Anderson, Jill Marie
Description: Student may contact the instructor or department for information.

Radi 4402 Clinical Practicum V
A-F only, 8 credit(s);
Instructor: Anderson, Jill Marie
Description: Student may contact the instructor or department for information.

Recreation, Park, and Leisure Studies
220 Cooke Hall
Rec 1501 Orientation to Leisure and Recreation
A-F only, 3 credit(s);
Instructor: Morrissey, Sean Patrick
Description: This course is designed as an introduction to the field of recreation and leisure studies through several field trips and service learning opportunities that highlight a variety of recreation programs, facilities, services and delivery systems. An experiential approach allows students to see firsthand the opportunities and careers in the recreation industry. Most class periods will be spent in the field exploring various agencies and meeting with professionals in the industry (YMCA Camp Ihduhapi, Three Rivers Park District - Silverwood & French Regional Park, REI, University Recreation Center, Oxford Community Center, National Sports Center, and Wilderness Inquiry). Students also help to plan events and operate the exciting Gopher Adventure Race (GAR) on-campus!
Style: 25% Lecture, 5% Small Group Activities, 40% Field Trips, 5% Guest Speakers, 25% Service Learning.
Grading: 15% special projects, 20% attendance, 30% reflection paper, 15% in-class presentation, 20% class participation.

Rec 2151 Outdoor and Camp Leadership
A-F only, 3 credit(s);
Instructor: Lais, Gregory J
Description: Practical and theoretical study of leading groups in outdoor and camp settings. Outdoor leadership skills, servant leadership, judgement and decision making, expedition planning, emergency procedures and risk management, LNT approaches, and working with diverse populations in an outdoor environment. Four Monday evening classes will be held at Wilderness Inquiry from 6 to 8:30 PM on April 7, 14, 21 and 28. A 4-day sea kayak field experience will be held May 1 - 4 at Wilderness Inquiry's Little Sand Bay basecamp in the Apostle Islands. This trip leaves at 7:30AM on the 1st from Wilderness Inquiry, and returns by 6PM on the 4th. Students may either drive up on their own or ride in Wilderness Inquiry van. All kayak gear provided. Wilderness Inquiry is located kitty corner from Berman Field at 808 - 14th Ave SE, 55414.
Style: 20% Lecture, 10% Small Group Activities, 20% Student Presentation, 50% Field Trips. You may need a completed Class Time Conflict Approval form to register. http://onestop.umn.edu/forms/index.html and scroll to Registration Forms: Class Time Conflict Approval. Contact Greg Lais at 612-840-5844 or greg@wildernessinquiry.org to sign.
Grading: 25% final exam, 25% reflection paper, 25% in-class presentation, 25% class participation.
Exam Format: Multiple choice

Rec 3551 Administration and Finance of Leisure Services
A-F only, 4 credit(s);
Instructor: Brown PhD, Tony Kevin
Description: Concepts, principles, and practices of managing leisure service organizations. Course content includes organizational leadership, personnel management, project management, facility development, facility operations and maintenance management, and financial management.

Rec 3601W Leisure and Human Development
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Magnuson PhD, Connie
Description: Student may contact the instructor or department for information.

Rec 3796 Senior Internship in Recreation, Park, and Leisure Studies
S-N only, 9 credit(s);
Instructor: Magnuson PhD, Connie
Description: Student may contact the instructor or department for information.

Rec 3993 Directed Study in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Magnuson PhD, Connie
Description: Student may contact the instructor or department for information.

Rec 3993 Directed Study in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Allison JD, Rayla
Description: Student may contact the instructor or department for information.

Rec 3993 Directed Study in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Kane PhD, Mary Jo
Description: Student may contact the instructor or department for information.
Rec 3993 Directed Study in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Ross PhD, Stephen
Description: Student may contact the instructor or department for information.

Rec 4161 Recreation Land Policy
A-F only, 3 credit(s);
Instructor: Magnuson PhD, Connie
Description: While the title of this course may be boring, the topic is not. This course meets only 8 Monday nights and is a classroom/online hybrid. Understand how our public parks and lands are managed in the United States. As taxpayers, we all own this public land and the facilities and resources contained therein. Discover who the players and stakeholders are and how policies that govern our land are developed. Learn about the challenges and issues that managing authorities face when attempting to both preserve our natural resources and environment while also allow use by the public. Learn about decision-making and the challenges of retaining our natural resources vs. public use through the always enjoyable and engaging simulation activity: Quagmire. You will learn about how decisions (policies) are made for the use of any public land and natural resources from City to State to National Parks, Forests, Monuments, Wild and Scenic Rivers, and more. Both interesting as terms of management and also as a citizen as to how our public land is used and maintained. We discuss user conflicts, destructive behavior and negative impacts on parks, and other very relevant management issues. You will learn some very transferable skills including the management decision making process. Available to both undergraduate and graduate students.

Rec 4311 Programming Outdoor & Env Ed
A-F only, 3 credit(s);
Instructor: Sorensen, Melanie Carol
Description: Student may contact the instructor or department for information.

Rec 4900 Special Topics: Contemporary Issues in Leisure Services: Outdoor Recreation Winter Skills
3 credit(s), max credits 12, 12 completions allowed;
Instructor: Hoffman, Mitchell Lee
Description: This course will look at developing the field skills essential to aspiring outdoor educators and leaders. The learning environment will occur mostly in the outdoor classroom teaching students how to effectively utilize this tool as an educator and instructor. Areas of focus will be instructional strategies, group dynamics, site management, hard skill development and application of outdoor leadership skills. Activities will include ice climbing, Nordic skiing, snowshoeing, and winter outdoor camping skills. Students will be expected to operate comfortably in an outdoor environment and field based class sessions are mandatory for course completion. The course meets on Fridays for six weeks and one weekend overnight field experience. Course dates for Spring 2013 are: Fridays: 9am-12pm: 2/7 9am-5pm: 2/14, 2/21 Feb. 28th from 9am-Feb. 29th, 4pm 9am-12pm: 3/7 9am-11am: 3/14 (final exam)

Rec 5801 Legal Aspects of Sport and Recreation
A-F only, 4 credit(s);
Instructor: Allison JD, Rayla
Description: Legal issues related to recreation, park, and sport programs/facilities with public/private sectors.

Rec 5992 Readings: Recreation
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Buysse PhD, 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. Class meetings once a week for 75 minutes

Rec 5992 Readings: Recreation
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Magnuson PhD, Connie
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.
Rec 5992 Readings: Recreation
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Allison JD Rayla
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

Rec 5992 Readings: Recreation
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Kane PhD Mary Jo
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

Rec 5992 Readings: Recreation
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Kihl PhD Lisa A
Description: Independent study under tutorial guidance by faculty member on particular topic(s) not covered in regular coursework.

Rec 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Magnuson PhD Connie
Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

Rec 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Allison JD Rayla
Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

Rec 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Kane PhD Mary Jo
Description: Independent study of leisure service programs, systems, facilities, or policies. Focuses on conduct of recreation programs. Scholarly projects (e.g., library or field research) or demonstration projects.

Rec 5995 Problems in Recreation, Park, and Leisure Studies
A-F only, 1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Ross PhD Stephen
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, 9 completions allowed;
Instructor: Kihl PhD 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.

Rehabilitation Science

RSc 5101 Mathematical Tools for Research Applications in Health, Rehab, and Human Movement Sciences
A-F only, 1 credit(s);
Instructor: Ludewig Paula M
Description: Student may contact the instructor or department for information.
RSc 5206 Academic Ethos
A-F only, 1 credit(s);
Instructor: Carey, James Robert
Description: Student may contact the instructor or department for information.

RSc 5235 Advanced Biomechanics II: Kinetics
A-F only, 3 credit(s);
Instructor: Ludewig, Paula M
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;
Instructor: Carey, James Robert
Description: Student may contact the instructor or department for information.

RSc 5294 Independent Study in Rehabilitation Science
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Ludewig, Paula M
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;
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;
Instructor: Martin PhD, Peggy Mae
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;
Instructor: Snow MD, PhD, LeAnn M
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;
Instructor: Kimberley, PT, PhD, Teresa Jacobson
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;
Instructor: Thompson PhD, LaDora V
Description: Student may contact the instructor or department for information.

RSc 5294 Independent Study in Rehabilitation Science
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Ludewig, Paula M
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;
Instructor: Lowe, Dawn Annette
Description: Student may contact the instructor or department for information.

RSc 5294 Independent Study in Rehabilitation Science
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Gillick, Bernadette Therese
Description: Student may contact the instructor or department for information.

RSc 5901 Scholarly Inquiry in Health Sciences
A-F only, 4 credit(s);
Instructor: Stern PhD, Erica Beth
Description: Student may contact the instructor or department for information.
RSc 8022 Fostering a Career in Aging Research  
S-N only, 1 credit(s); instr consent Credit will not be granted if credit has been received for: GERO 8022; 
**Instructor:** Thompson PhD, LaDora V  
**Description:** Student may contact the instructor or department for information.

RSc 8130 Current Literature Seminar  
A-F only, 1 credit(s);  
**Instructor:** Carey, James Robert  
**Description:** Student may contact the instructor or department for information.

RSc 8130 Current Literature Seminar  
A-F only, 1 credit(s);  
**Instructor:** Mathiowetz PhD, Virgil G  
**Description:** Student may contact the instructor or department for information.

RSc 8130 Current Literature Seminar  
A-F only, 1 credit(s);  
**Instructor:** Martin PhD, Peggy Mae  
**Description:** Student may contact the instructor or department for information.

RSc 8130 Current Literature Seminar  
A-F only, 1 credit(s);  
**Instructor:** Snow MD, PhD, LeAnn M  
**Description:** Student may contact the instructor or department for information.

RSc 8130 Current Literature Seminar  
A-F only, 1 credit(s);  
**Instructor:** Kimberley, PT, PhD, Teresa Jacobson  
**Description:** Student may contact the instructor or department for information.

RSc 8130 Current Literature Seminar  
A-F only, 1 credit(s);  
**Instructor:** Thompson PhD, LaDora V  
**Description:** Student may contact the instructor or department for information.

RSc 8130 Current Literature Seminar  
A-F only, 1 credit(s);  
**Instructor:** Ludewig, Paula M  
**Description:** Student may contact the instructor or department for information.

RSc 8130 Current Literature Seminar  
A-F only, 1 credit(s);  
**Instructor:** Lowe, Dawn Annette  
**Description:** Student may contact the instructor or department for information.

RSc 8170 Special Topics in Rehabilitation Science  
A-F only, 1 credit(s), max credits 3, 3 completions allowed;  
**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;  
**Instructor:** Mathiowetz PhD, 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;  
Instructor: Martin PhD, Peggy Mae  
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;  
Instructor: Snow MD, PhD, LeAnn M  
Description: Student may contact the instructor or department for information.

RSc 8170 Special Topics in Rehabilitation Science  
A-F only, 1 credit(s), max credits 3, 3 completions allowed;  
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;  
Instructor: Thompson PhD, LaDora V  
Description: Student may contact the instructor or department for information.

RSc 8170 Special Topics in Rehabilitation Science  
A-F only, 1 credit(s), max credits 3, 3 completions allowed;  
Instructor: Ludewig, Paula M  
Description: Student may contact the instructor or department for information.

RSc 8170 Special Topics in Rehabilitation Science  
A-F only, 1 credit(s), max credits 3, 3 completions allowed;  
Instructor: Lowe, Dawn Annette  
Description: Student may contact the instructor or department for information.

RSc 8170 Special Topics in Rehabilitation Science  
A-F only, 1 credit(s), max credits 3, 3 completions allowed;  
Instructor: Gillick, Bernadette Therese  
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;  
Instructor: Carey, James Robert  
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;  
Instructor: Mathiowetz PhD, Virgil G  
Description: Student may contact the instructor or department for information.

RSc 8185 Problems in Rehabilitation Science  
1-3 credit(s), max credits 3, 3 completions allowed;  
Instructor: Martin PhD, Peggy Mae  
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;  
Instructor: Snow MD, PhD, LeAnn M  
Description: Student may contact the instructor or department for information.

RSc 8185 Problems in Rehabilitation Science  
1-3 credit(s), max credits 3, 3 completions allowed;  
Instructor: Kimberley, PT, PhD, Teresa Jacobson  
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;
Instructor: Thompson PhD, LaDora V
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;
Instructor: Ludewig, Paula M
Description: Student may contact the instructor or department for information.

RSc 8185 Problems in Rehabilitation Science
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Lowe, Dawn Annette
Description: Student may contact the instructor or department for information.

RSc 8185 Problems in Rehabilitation Science
1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Gillick, Bernadette Therese
Description: Student may contact the instructor or department for information.

RSc 8188 Teaching Practicum
A-F only, 1-5 credit(s), max credits 5, 3 completions allowed;
Instructor: Carey, James Robert
Description: Student may contact the instructor or department for information.

RSc 8188 Teaching Practicum
A-F only, 1-5 credit(s), max credits 5, 3 completions allowed;
Instructor: Mathiowetz PhD, Virgil G
Description: Student may contact the instructor or department for information.

RSc 8188 Teaching Practicum
A-F only, 1-5 credit(s), max credits 5, 3 completions allowed;
Instructor: Martin PhD, Peggy Mae
Description: Student may contact the instructor or department for information.

RSc 8188 Teaching Practicum
A-F only, 1-5 credit(s), max credits 5, 3 completions allowed;
Instructor: Snow MD, PhD, LeAnn 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, 3 completions allowed;
Instructor: Kimberley, PT, PhD, Teresa Jacobson
Description: Student may contact the instructor or department for information.

RSc 8188 Teaching Practicum
A-F only, 1-5 credit(s), max credits 5, 3 completions allowed;
Instructor: Thompson PhD, LaDora V
Description: Student may contact the instructor or department for information.

RSc 8188 Teaching Practicum
A-F only, 1-5 credit(s), max credits 5, 3 completions allowed;
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, 3 completions allowed;
Instructor: Lowe, Dawn Annette
Description: Student may contact the instructor or department for information.
RSc 8188 Teaching Practicum  
A-F only, 1-5 credit(s), max credits 5, 3 completions allowed;  
Instructor: Gillick, Bernadette Therese  
Description: Student may contact the instructor or department for information.

RSc 8235 Human Kinetics  
A-F only, 3 credit(s);  
Instructor: Ludewig, Paula M  
Description: Student may contact the instructor or department for information.

RSc 8282 Problems in Human Movement  
A-F only, 4 credit(s);  
Instructor: Kimberley, PT, PhD, Teresa Jacobson  
Description: Student may contact the instructor or department for information.

Religious Studies  
245 Nicholson Hall

RelS 1001 Introduction to the Religions of the World  
3 credit(s); Meets CLE req of Global Perspectives  
Instructor: Laine, James  
Description: Since the nineteenth century, scholars have studied the major religions of the world in a comparative way. It is not always clear just what the definition of "religion" is, but it is clear that most people in most times and places have been religious: they think about divine beings, the ultimate purpose of human life and the mystery of being and death. Religious commitments can be a set of taken-for-granted assumptions, or clearly articulated ideological stances about what human beings should do and believe. We will look at both aspects of religion. We cannot hope to cover all religious traditions nor even cover a few in any great depth. The course intended as a reflection on aspects of religion as found in religious traditions of South Asia (India), East Asia (China, Japan), and the West (Judaism, Christianity and Islam), While not neglecting the classical texts, we will use films and a field report as ways of confronting the contemporary practices of religious people today.

RelS 1003 World of the Bible: Religions, Empires, and Discourses of Power  
3 credit(s); Credit will not be granted if credit already received for: RelA 1001; Credit will not be granted if credit has been received for: CNES 1001; Meets CLE req of Arts/Humanities  
Instructor: Barnes, William Hamilton  
Description: Where did the Bible come from? Who were the ancient Israelites? How did the great civilizations of the ancient world influence the Bible? Integrating a cross-disciplinary spectrum of religion, history, archeology, and literature, students in this class will discover the contemporary contexts for the ancient literary anthologies now known as the Hebrew Bible and the New Testament. Topics will include the development of monotheism, kingship, warfare, divination, prophecy, law, poetry, mythology, and daily life. Students will encounter a variety of famous ancient Near Eastern texts, including the Epic of Gilgamesh, the Laws of Hammurabi, and the Dead Sea Scrolls. Since we will engage in secular study only, analytically examining all relevant religious texts and traditions, students are required to retain an open mind and the willingness to read and discuss the Bible in a new way.

RelS 1011 Religions and American Identity in the United States from World War II to the Present  
3 credit(s); Credit will not be granted if credit has been received for: AMST 1011; Meets CLE req of Civic Life and Ethics  
Instructor: Prell, Riv-Ellen  
Description: Student may contact the instructor or department for information.

RelS 3001W Theory and Method in Religion: Critical Approaches to the Study of Religion  
3 credit(s); Credit will not be granted if credit has been received for: RELS 5001; Meets CLE req of Writing Intensive  
Instructor: Kilde, Jeanne Halgren  
Description: While even a quick glance at any newspaper these days impresses upon us the importance of religion, just how we are to understand and/or learn about religion, given the vast array of ideas, practices, institutions, and communities that lay claim to the category, is anything but straightforward. Scholars from many disciplines study religion, adding another layer of diversity, or even confusion, to the question of how one might go about learning about religion. This course will sort through a number of theories of religion and methods for studying it that have developed since the 19th century. Along the way we will examine theoretical work by Frederick Schleiermacher, Emile Durkheim, E. B. Taylor, Rudolph Otto, Mircea Eliade, Evans Evans-Pritchard, Clifford Geertz, Jonathan Z. Smith, Robert Orsi, Thomas Tweed, Talal Asad, Tomoko Masuzawa, and others. Embedded in all of these theories are ideas about religious power and about the "religious other" and the ethics of studying those "others."
RelS 3070 Topics in Religious Studies: The End of the World in Literature & History
3 credit(s), max credits 6;
Instructor: Watkins, John
Description: Student may contact the instructor or department for information.

RelS 3070 Topics in Religious Studies: North Africa since 1500: Islam and Colonialism
3 credit(s), max credits 6;
Instructor: Schroeter, Daniel J
Description: Student may contact the instructor or department for information.

RelS 3070 Topics in Religious Studies: Women, Gender, and the Hebrew Bible
3 credit(s), max credits 6;
Instructor: Levinson, Hanne Loeland
Description: "And the rib that the Lord God had taken from the man he made into a woman and brought her to the man" (Gen 2:22). Few texts have been more influential for the western world's thinking about men, women, gender, and sexuality than the creation stories of the Hebrew Bible/Old Testament. Yet there is a considerable scholarly debate on how to best understand these texts. The goal of this course is to familiarize you with this debate. We will examine questions such as: How is man, woman, gender, and sexuality portrayed in the Hebrew Bible? What do we know about the social and religious roles and status of women in ancient Israel? Is the God of the Hebrew Bible presented as a gendered God? What does it mean to read the Bible from a gender perspective, and what is feminist hermeneutics? We will be reading biblical texts from an academic point of view and the main goal of the course is to learn how to read closely, to think critically about the meaning of a text, and to differentiate between what the texts say and what later times have understood the texts to say.
Grading: 30% mid exam, 30% final exam, 40% reports/papers.

RelS 3070 Topics in Religious Studies: Missionary Encounters: Evangelism and Empire
3 credit(s), max credits 6;
Instructor: Gerbner, Katharine
Description: Student may contact the instructor or department for information.

RelS 3073 Roman Religion and Early Christianity
3 credit(s);
Instructor: Nicholson, Oliver
Description: Religion in the Roman world performed a function very different from that which it performs in contemporary America. Worship of the public Gods was the communal focus of Roman communities, and their protection against the disasters which might be brought upon them by the forces of nature. This course will consider the practices of Roman public religion, and the myths associated with them, and assess their peculiar strengths. It will also be concerned with the practices of groups of individuals concerned with particular divinities, whether they are principally religious (such as the worship of the gods Mithras or Isis) or philosophical (whether highbrow or middlebrow). Christianity was peculiar in that it was the only Greco-Roman religious practice which cut its adherents off from the performance of the customary public cults; that is why it was persecuted. The second half of the course will consider themes in the growth of primitive Christianity, beginning in the 2nd century A.D., and look at the way it came to replace the traditional public cults as the dominant ideology and practice in the Roman world. The reading will be, so far as possible, in English translations of Greek, Latin, and Syriac texts written in the Roman period, though important modern scholarship will also be considered.
Style: All lecture and discussion. No public sacrifices!
Grading: 20% mid exam, 40% final exam, 40% reports/papers.
Exam Format: GOBBETS, i.e. passages from ancient authors set for comment - explanation in class

RelS 3202 Prophecy in Ancient Israel
3 credit(s); 1001 or CNES 1201 or CNES 3201 credit will not be granted if credit already received for: RelA 3202, CNES 3202
Credit will not be granted if credit has been received for: CNES 3202;
Instructor: Levinson, Hanne Loeland
Description: What is prophecy? What is a prophet? What was the prophecic message, to whom did the prophet speak, and what did he/she convey? What was the prophet's social, political and religious role? This course seeks to understand prophecy in ancient Israel and the prophetic literature of the Hebrew Bible/Old Testament within the larger context of the ancient Near East. The course will provide an introduction to prophetic literature, to the different prophetic genres, to the formation of the prophetic books, and to the study of imagery and metaphor. One fascinating feature of the prophetic literature of the Hebrew Bible is the way it is reused in later art, literature, and music; some examples of this phenomenon will be discussed in the course as well. We will be reading biblical texts from an academic point of view and the main goal of the course is to learn how to read closely, to think critically about the meaning of a text, and to differentiate between what
the texts say and what later times have understood the texts to say.

**Grading:** 40% mid exam, 25% final exam, 25% reports/papers, 10% other evaluation. Smaller assignments 10%

**RelS 3202 Prophecy in Ancient Israel**
3 credit(s); Credit will not be granted if credit already received for: RelA 3202, CNES 3202

**Instructor:** Barnes, William Hamilton

**Description:**
What is prophecy? What is a prophet? What was the prophetic message, to whom did the prophet speak, and what did he/she convey? What was the prophet? s social, political and religious role? This course seeks to understand prophecy in ancient Israel and the prophetic literature of the Hebrew Bible/Old Testament within the larger context of the ancient Near East. The course will provide an introduction to prophetic literature, to the different prophetic genres, to the formation of the prophetic books, and to the study of imagery and metaphor. One fascinating feature of the prophetic literature of the Hebrew Bible is the way it is reused in later art, literature, and music; some examples of this phenomenon will be discussed in the course as well. We will be reading biblical texts from an academic point of view and the main goal of the course is to learn how to read closely, to think critically about the meaning of a text, and to differentiate between what the texts say and what later times have understood the texts to say.

**Grading:** 40% mid exam, 25% final exam, 25% reports/papers, 10% other evaluation. Smaller assignments 10%

**RelS 3321 American Indian Philosophies**
4 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US

**Instructor:** Ghebregzi, Alex Anthony

**Description:**
The purpose of this course is to introduce students to the philosophical thought and spiritual beliefs of native peoples of North America. Students will examine a broad spectrum of issues which influence the worldview of native people on this continent, including European contact and thought. Students may find some of the issues to be controversial and personally challenging, however, a thorough discussion of the impact of European influences is important to understanding native people's resistance and survival. Finally, students will also explore the ways in which native philosophy and spiritual practices shape native life experience in a society viewed by many native people as being at odds with their beliefs.

**Style:** 60% Lecture, 20% Discussion. Group work

**Grading:** 33% mid exam, 33% final exam, 17% reports/papers, 17% class participation.

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

**RelS 3611 Eastern Orthodoxy: History and Culture**
3 credit(s); Credit will not be granted if credit has been received for: HIST 3767

**Instructor:** Stavrou, Theofanis G

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

**RelS 3623 Religion and the U.S. Founding: Contests Then and Now Over the Place of Religion in Politics**
3 credit(s); Credit will not be granted if credit has been received for: HIST 3804; Meets CLE req of Historical Perspectives

**Instructor:** Fischer, Kirsten

**Description:**
A heated debate rages in the U.S. today about the proper role of religion in American politics. In arguing about the appropriate relationship of church and state, contenders on all sides frequently support their claims with references to the framers of the U.S. Constitution. Some see these men as devout Christians intent on establishing a Christian Nation, while others view them as secularists focused on separating church and state. All sides use direct quotes to make their case. Who is right? This Historical Perspectives course explores how leading political figures wrote about religion during and after the framing of the U.S. Constitution. The course also investigates competing religious currents in the early Republic, the rise of the Religious Right in the 20th century, and debates in the late-18th century and today over the proper role of religion in American politics. See the syllabus for more information.

**Style:** 70% Lecture, 5% Film/Video, 10% Discussion, 15% Small Group Activities.

**Grading:** 20% mid exam, 30% final exam, 40% reports/papers. In-class writing assignments will be worth 10% of the final grade.

**Exam Format:** The mid-term exam will be written during class time. The final is a take-home exam.

**RelS 3708 The Cultures of the Silk Road**
3 credit(s); Credit will not be granted if credit has been received for: HIST 3504

**Instructor:** Bashiri, Iraj

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

**RelS 3712 Islam: Religion and Culture**
3 credit(s); Credit will not be granted if credit already received for: RelA 3036

**Instructor:** Credit will not be granted if credit has been received for: ARAB 3036
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 views. 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 (sayings and actions of the prophet) and the Sira (biography). 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. I will ask you to view two films on your own and 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 4952 Final Project
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Matar, Nabil I
Description: Student may contact the instructor or department for information.

RelS 5001 Theory and Method in the Study of Religion: Critical Approaches to the Study of Religion
3 credit(s); Sr or grad student or instr consent credit will not be granted if credit already received for: RelA 5521
Credit will not be granted if credit has been received for: RELS 3001W;
Instructor: Kilde, Jeanne Halgren
Description: While even a quick glance at any newspaper these days impresses upon us the importance of religion, just
how we are to understand and/or learn about religion, given the vast array of ideas, practices, institutions, and communities
that lay claim to the category, is anything but straightforward. Scholars from many disciplines study religion, adding another
layer of diversity, or even confusion, to the question of how one might go about learning about religion. This course will sort
through a number of theories of religion and methods for studying it that have developed since the 19th century. Along the
way we will examine theoretical work by Frederick Schleiermacher, Emile Durkheim, E. B. Taylor, Rudolph Otto, Mircea
Eliade, Evans Evans-Pritchard, Clifford Geertz, Jonathan Z. Smith, Robert Orsi, Thomas Tweed, Talal Asad, Tomoko
Masuzawa, and others. Embedded in all of these theories are ideas about religious power and about the "religious other"
and the ethics of studying those "others." Thus, to focus our examination, we will concentrate on two areas: 1.) The Politics
of Space and Ritual in the study of religion and 2.) The Ethics of Ethnography. We will examine a variety of religious places
and practices, including mosques, churches, temples, street festivals, pilgrimages, worship services, devotions to saints,
speaking in tongues, and snake handling. This course is partnering with courses in Architecture and Art around an initiative
on Sacred/Contested Space. Students will have the opportunity to participate in conversations across these courses, in an
exhibit to be developed for the Nash Gallery, and in a conference.
Style: 20% Lecture, 5% Film/Video, 60% Discussion, 10% Small Group Activities, 5% Guest Speakers.

RelS 5513W Scripture and Interpretation in Israelite Religion and Judaism
A-F only, 3 credit(s); At least one upper level course (3xxx or higher) in academic biblical or religious studies Credit
will not be granted if credit has been received for: JWST 5513W; Meets CLE req of Writing Intensive
Instructor: Levinson PhD, Bernard M.
Description: This seminar investigates the idea of divine revelation and its impact upon religion and literature. It shows how
the history of the Bible's creation, transmission and interpretation in Judaism can help us think critically about the role of the
idea of revelation in the history of religious traditions. Just what is revelation? What happens when a literary text is accorded
the status of revelation? How does the belief that a text is revealed affect the way it is read within the community for which it
constitutes revelation? These are the questions we bring to the particular case of Judaism's scriptural canon and the history
of its interpretation. It will place particular emphasis upon the reinterpretation and transformation of authoritative texts within
the Hebrew Bible even before the closure of the canon. Chronologically, it covers developments from about the 5th century
B.C.E. until about the 13th century C.E. This period begins prior to the formation of the present version of the
Bible, witnesses its compilation and the origins of Rabbinic Judaism and Christianity, and ends with the solidification of those
medieval traditions of biblical commentary which still shape modern Jewish understanding of Scripture. That contemporary
literary and legal studies have begun to address the issues of canon, the history of authorship, textual authority, canon
transformation, intertextuality, and the nature of interpretation, extends the methodological and theoretical implications of the
material studied.
Style: 25% Lecture, 75% Discussion.
Grading: 100% reports/papers.
Instructor: King, Vanessa Lea
Description: Student may contact the instructor or department for information.

Resp 3402 Seminar in Respiratory Care II
A-F only, 1 credit(s);
Instructor: King, Vanessa Lea
Description: Student may contact the instructor or department for information.

Resp 3502 Clinical Research: Literature, Methodology, and Application
A-F only, 3 credit(s);
Instructor: King, Vanessa Lea
Description: Student may contact the instructor or department for information.

Resp 4342 Clinical Practicum V: Advanced Respiratory Care
S-N only, 3 credit(s);
Instructor: King, Vanessa Lea
Description: Student may contact the instructor or department for information.

Resp 4402 Clinical Practicum VI: Advanced Adult Respiratory Critical Care
A-F only, 1 credit(s);
Instructor: King, Vanessa Lea
Description: Student may contact the instructor or department for information.

Resp 4502 Research Project II
A-F only, 1 credit(s);
Instructor: King, Vanessa Lea
Description: Student may contact the instructor or department for information.

Resp 4602 Grand Rounds
A-F only, 2 credit(s);
Instructor: King, Vanessa Lea
Description: Student may contact the instructor or department for information.

Retail Merchandising 240 McNeal Hall

RM 1201 Fashion, Ethics, and Consumption
3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: STAFF
Description: A liberal education has the goal of preparing students to develop both practical skills such as problem-solving, ability to effectively communicate, and the ability to apply information to everyday life, as well as to develop a sense of who they are as citizens of a community. This course has been designed specifically for first year students to reflect on the ethical perspectives that shape decision making about an everyday product: apparel. The apparel industry is the context used to examine our own ethical viewpoints and the meaning of citizenship. We document how public engagement has impacted the moral issues that historically evolved within this industry and how public engagement can be used to shape and change contemporary industry practices. Specifically, students address the following: what is the concept of ethics and how does it differ from other related terms (e.g., morality, legality, self-interest, codes of conduct)? What are common ethical viewpoints and how have they developed? What ethical view(s) most closely align with their own? How did they develop their view(s)? What does it mean to behave ethically? How does a shared ethic develop within a community or organization? What is corporate culture? How does the culture of an organization promote ethical behavior? How do problems evolve within the apparel industry and what role does ethics and engagement in everyday life play in perpetuating or solving these problems?

RM 2196 Work Experience in Retail Merchandising
S-N only, 1-4 credit(s), max credits 8;
Instructor: Johnson PhD, Kim KP
Description: Student may contact the instructor or department for information.

RM 2196 Work Experience in Retail Merchandising
S-N only, 1-4 credit(s), max credits 8;
Instructor: Wu, Juanjuan
Description: Student may contact the instructor or department for information.

RM 2196 Work Experience in Retail Merchandising
S-N only, 1-4 credit(s), max credits 8;
Instructor: Im, Hyunjoo
Description: Student may contact the instructor or department for information.

RM 2196 Work Experience in Retail Merchandising
S-N only, 1-4 credit(s), max credits 8;
Instructor: Kim, Hye-Young
Description: Student may contact the instructor or department for information.

RM 2215 Introduction to Retail Merchandising
A-F only, 3 credit(s);
Instructor: Im, Hyunjoo
Description: This course introduces the world of retailing to students. Retailing includes many exciting aspects and has become increasingly sophisticated due to the advancement of technology. Students in this class will discuss and explore the issues from diverse facets of retailing through readings, discussions, and activities.
Grading: 22% mid exam, 22% final exam, 24% quizzes, 25% written homework, 7% class participation.

RM 3196 Field Study: National or International
A-F only, 1-4 credit(s), max credits 10, 3 completions allowed;
Instructor: Dunne, Lucy Elizabeth
Description: Student may contact the instructor or department for information.

RM 3201 Career and Internship Preparation for Retail Merchandising
A-F only, 1 credit(s);
Instructor: STAFF
Description: This class is ideal for Retail Merchandising majors or minors who are confident they're in the right major and want to begin seeking jobs and internships related to their career goals. Career and Internship Preparation for Design will walk you through the internship or job search process step by step to help you feel more confident in your ability to secure positions in your industry area. Through in-class presentations and activities, you will identify your top skills/strengths and learn how to market these qualities through cover letters, resumes, portfolios and job interviews. Additionally, you will learn the best resources and strategies for finding job openings in your field. Students will also have several opportunities to get advice and insight from industry professionals.
Style: 30% Lecture, 20% Discussion, 30% Small Group Activities, 20% Guest Speakers. In class activities include both individual reflection activities and small group discussions.
Grading: 46% reports/papers, 46% special projects, 8% class participation.

RM 3243 Visual Merchandising
A-F only, 3 credit(s);
Instructor: STAFF
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. Students will work with industry partners on window display and merchandise presentation course projects.

RM 4117W Retail Environments and Human Behavior
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Wu, Juanjuan
Description: Theory and research related to the designed environment across retail channels. Upon completion of this course, students should be able to: -- Analyze the importance of retail environments as stimuli to consumer behavior. -- Develop sensitivity to sustainability issues in retailing. -- Identify, synthesize, and critique research and theories applicable to various retailing formats and environments. -- Design, develop, and conduct original research focusing on retail environments. -- Develop and refine critical writing skills in communicating and disseminating scholarship.

RM 4160H Honors Capstone Project
A-F only, 2 credit(s), max credits 4;
Instructor: Johnson PhD, Kim KP
Description: Student may contact the instructor or department for information.
RM 4160H Honors Capstone Project  
A-F only, 2 credit(s), max credits 4;  
Instructor: Wu,Juanjuan  
Description: Student may contact the instructor or department for information.

RM 4160H Honors Capstone Project  
A-F only, 2 credit(s), max credits 4;  
Instructor: Im,Hyunjoo  
Description: Student may contact the instructor or department for information.

RM 4160H Honors Capstone Project  
A-F only, 2 credit(s), max credits 4;  
Instructor: Kim,Hye-Young  
Description: Student may contact the instructor or department for information.

RM 4193 Directed Study in Retail Merchandising  
A-F only, 1-4 credit(s), max credits 8;  
Instructor: Johnson PhD,Kim KP  
Description: Student may contact the instructor or department for information.

RM 4193 Directed Study in Retail Merchandising  
A-F only, 1-4 credit(s), max credits 8;  
Instructor: Wu,Juanjuan  
Description: Student may contact the instructor or department for information.

RM 4193 Directed Study in Retail Merchandising  
A-F only, 1-4 credit(s), max credits 8;  
Instructor: Im,Hyunjoo  
Description: Student may contact the instructor or department for information.

RM 4193 Directed Study in Retail Merchandising  
A-F only, 1-4 credit(s), max credits 8;  
Instructor: Kim,Hye-Young  
Description: Student may contact the instructor or department for information.

RM 4196 Internship in Retail Merchandising  
S-N only, 2 credit(s);  
Instructor: Johnson PhD,Kim KP  
Description: Student may contact the instructor or department for information.

RM 4196 Internship in Retail Merchandising  
S-N only, 2 credit(s);  
Instructor: Wu,Juanjuan  
Description: Student may contact the instructor or department for information.

RM 4196 Internship in Retail Merchandising  
S-N only, 2 credit(s);  
Instructor: Im,Hyunjoo  
Description: Student may contact the instructor or department for information.

RM 4196 Internship in Retail Merchandising  
S-N only, 2 credit(s);  
Instructor: Kim,Hye-Young  
Description: Student may contact the instructor or department for information.

RM 4212W Dress, Society, and Culture  
A-F only, 3 credit(s);Meets CLE req of Writing Intensive  
Instructor: STAFF  
Description: Dressing the body is an everyday experience that is often taken for granted, yet has a tremendous impact on
the US economy. We dress our bodies to communicate consciously or unconsciously who we are and to receive personal satisfaction. Thus, dress is a nonverbal communication system of body modifications and supplements that have meaning dependent on time and socio-cultural space. Apparel retailers 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 polity.

Technology of a particular society and types of dress are analyzed and understood as they link to patterns of behavior such as beliefs about morality, hygiene, ritual, and beauty.

RM 4217 International Retail Markets
A-F only, 3 credit(s);Meets CLE req of Global Perspectives
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: 20% Lecture, 10% Film/Video, 10% Discussion, 10% Small Group Activities, 5% Student Presentation, 45% Web Based.
Grading: 20% mid exam, 20% final exam, 15% special projects, 15% quizzes, 20% written homework, 10% class participation.
Exam Format: multiple choice

RM 4247 Advanced Buying and Sourcing
A-F only, 3 credit(s);
Instructor: Kim,Hye-Young
Description: This course is designed to familiarize students with the decisions involved in running a retail business and the concepts and principles for making those decisions. While the course focuses on the retail industry including retailers of consumer services, the content of the course is useful for students interested in working for companies that interface with retailers such as manufacturers of consumer products or for students with a general management or entrepreneurial interest. Major topics include customer relationship management, information systems and supply chain management, managing merchandise assortments, merchandise planning systems, buying and sourcing, and retail pricing. This course also uses computer software applications (Sourcing Simulator, Excel, SPSS) for solving strategic problems in retail buying.
Style: 10% Lecture, 30% Laboratory, 10% Small Group Activities, 10% Student Presentation, 40% Web Based.
Grading: 20% mid exam, 20% final exam, 15% reports/papers, 5% in-class presentation, 15% class participation, 25% laboratory evaluation.
Exam Format: Each exam will cover the material indicated on the course schedule, including the videos we will watch on certain retailing topics. Exams will consist of true/false, multiple choice, fill-in-the-blank, and/or short answers.

Russian 320 Folwell Hall

Russ 1101 Beginning Russian I
5 credit(s);Credit will not be granted if credit has been received for: RUSS 4101;
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 CD's, and are required to participate in each class section. Active control of Russian structure is the principal criterion of evaluation.
Style: 30% Lecture. instructor guided oral exercises
Grading: 25% final exam, 70% quizzes, 5% other evaluation. oral exam
Exam Format: fill in, translation to Russian, open-ended response

Russ 1101 Beginning Russian I
5 credit(s);Credit will not be granted if credit has been received for: RUSS 4101;
Instructor: Williams,Denise Elizabeth
Description: This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course is the first in a two-course sequence on Beginning Russian. Upon completion of the two courses, a student can expect to be able to pronounce Russian words with reasonable correctness; compose grammatically correct, simple, sentences; understand Russian as
spoken conversationally; respond appropriately to common requests; and read everyday Russian with the aid of a dictionary. In order to speak Russian effectively, you would need to get practice speaking Russian with others.

**Style:** This is a printed correspondence section.

**Grading:** See attached syllabus

**Exam Format:** Supervised, in-person exams

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**Russ 1102 Beginning Russian II**

- **5 credit(s); 1101 or equiv** Credit will not be granted if credit has been received for: RUSS 4102;
- **Instructor:** Williams, Denise Elizabeth
- **Description:** This course is a printed distance learning section (known as a correspondence course) offered through Online and Distance Learning, College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. This course is the second 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 sentences; understand Russian as spoken conversationally; respond appropriately, if briefly, to common requests; and read everyday Russian with the aid of a dictionary. In order to speak Russian effectively, you would need to get practice speaking Russian with others.

**Style:** This is a printed correspondence section.

**Grading:** See attached syllabus

**Exam Format:** Supervised, in-person exams

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**Russ 1102 Beginning Russian II**

- **5 credit(s); 1101 or equiv** Credit will not be granted if credit has been received for: RUSS 4102;
- **Instructor:** Schweikert, Maria S
- **Description:** Student may contact the instructor or department for information.

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**Russ 1102 Beginning Russian II**

- **5 credit(s); 1101 or equiv** Credit will not be granted if credit has been received for: RUSS 4102;
- **Instructor:** Walter, Ronald F.
- **Description:** Student may contact the instructor or department for information.

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**Russ 1102 Beginning Russian II**

- **5 credit(s); 1101 or equiv** Credit will not be granted if credit has been received for: RUSS 4102;
- **Instructor:** Jahn, Gary R
- **Description:**

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**Russ 3002 Intermediate Russian II**

- **5 credit(s); 3001 or instr consent** Credit will not be granted if credit has been received for: RUSS 4104;
- **Instructor:** Schweikert, Maria S
- **Description:** Student may contact the instructor or department for information.

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**Russ 3002 Intermediate Russian II**

- **5 credit(s); 3001 or instr consent** Credit will not be granted if credit has been received for: RUSS 4104;
- **Instructor:** Walter, Ronald F.
- **Description:** Student may contact the instructor or department for information.

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**Russ 3102 Advanced Russian II**

- **4 credit(s); 3101 or 4111 or instr consent** Credit will not be granted if credit has been received for: RUSS 4112;
- **Instructor:** Schweikert, Maria S
- **Description:** In this course, RUSS 3102 (Advanced level), we continue studying the grammar more in depth, read stories, watch documentaries and feature films. Students write about 3 short essays on the stories we read during a semester, and a longer end-of-semester final essay on a movie we watch together. These essays are graded. We also have chapter tests/quizzes. The class is conducted mostly in Russian. Students carry on conversations in groups of 2-3 on given topics. Occasionally, they give short oral reports on current events. Class time: 10% lecture, 30% small group activities, 10% film/video, 10% student presentation, 20% interactive exercises, 20% discussion. Grade: 70% tests (4-5), compositions (2-3 per semester, min. 2 pages per comp.), 20% final essay, 10% attendance and class participation. Workload: weekly grammar - 15 pp., reading stories 5-10 pp. per week, homework assignments (Workbook)

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**Russ 3311 Russian Major Project**

- **A-F only, 3 credit(s)**; 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 typed double-spaced pages, under the guidance of two faculty members in the Russian program. Topics are chosen by students in consultation with their faculty advisors. Students have scheduled individual meetings with the advisors. The Director of Undergraduate Studies coordinates all projects, and students should consult her/him before signing up for the course. Projects should show evidence of original thinking, the ability to use secondary sources (critical and scholarly literature) appropriately, and the ability to analyze and present arguments effectively. Unacceptable projects include book reports, plot summaries, or translations. The project should be linked to the student's course work within the Russian major, i.e. the student should have some academic background in a particular area before undertaking to write a paper in that area. The language of the paper should be English. The paper should, however, present evidence of appropriate use of Russian-language sources.

Russ 3311H Honors Major Project in Russian
A-F only, 3-4 credit(s), max credits 4, 1 completion allowed; Advanced Russian major
Credit will not be granted if credit has been received for: RUSS 3311;
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. 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.
Style: 25% Discussion, guided research
Grading: 100% other evaluation. finished research paper

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:

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
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 individuation conferred by Christian freedom. There will be take-home essays to write for both the mid-term and the final exams. The workload consists mostly of about six hours of reading for each Tuesday evening session. A course paper is optional.

Russ 3993 Directed Studies
1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: STAFF
Description: The purpose of this course, offered at the discretion of the faculty, is to provide individualized instruction to undergraduate students wishing to explore specialized topics not covered in regular course offerings. The number of
faculty in the Russian program being small, no more than 3-5 students per year can be thus accommodated; preference is given to students in the final year of completing their Russian major. The content and procedures of this course vary widely, depending upon agreement between student and instructor, and the number of credits for which the course is taken. Students must consult the Director of Undergraduate Studies in the Russian unit before registering for this course.

Russ 4102 Beginning Russian II
3 credit(s); 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); 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 4102 Beginning Russian II
3 credit(s); 4101, [fourth sem course in another language or grad student] Credit will not be granted if credit has been received for: RUSS 1102;  
Instructor: Jahn, Gary R  
Description: Student may contact the instructor or department for information.

Russ 4104 Intermediate Russian II
3 credit(s); 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); 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 4112 Advanced Russian II
2 credit(s); 3101 or 4111 or instr consent Credit will not be granted if credit has been received for: RUSS 3102;  
Instructor: Schweikert, Maria S  
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: 

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: 

Russ 5407 Stories and Plays of Anton Chekhov in Translation
3 credit(s); Credit will not be granted if credit has been received for: RUSS 3407;  
Instructor: Polakiewicz, Leonard Anthony  
Description: This course is devoted to the study of literary devices, ideas and themes in 23 stories and 4 major plays by Anton Chekhov—one of the world's greatest modern writers. Although the intrinsic approach is used in analyzing Chekhov's works which focuses mainly on their aesthetic merits, the role of extrinsic factors such as biography, psychology, history, etc., is also studied. This course should be an enriching experience for all students and especially those interested in world literature and drama, Russian and East-Central European Studies, English and Theatre Arts.  
Style: 60% Lecture, 40% Discussion.  
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 20% class participation.  
Exam Format: Essay

Russ 5422 Literature: Tolstoy to the Present in Translation
3 credit(s); Credit will not be granted if credit has been received for: RUSS 3422;  
Instructor: Walter, Ronald F.  
Description: 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 individuation conferred by Christian freedom. There will be take-home essays to write for both the mid-term and the final exams. The workload consists mostly of about six hours of reading for each Tuesday evening session. A course paper is required.

Russ 5993 Directed Studies
1-4 credit(s), max credits 16, 4 completions allowed;
Instructor: STAFF
Description: The purpose of this course, offered at the discretion of the faculty, is to provide individualized instruction to advanced undergraduate and graduate students wishing to explore specialized topics not covered in regular course offerings. The number of faculty in the Russian program being small, no more than 3-5 students per year can be thus accommodated, preference is given to students in their final year of the Russian major and to graduate students in Russian Area Studies. The content and procedures of this course vary widely, depending upon agreement between student and instructor, and the number of credits for which the course is taken. Students must consult the Director of Undergraduate Studies in the Russian unit before registering for this course.
Style: guided research and discussion
Grading: 100% other evaluation. student's work evaluated on the basis of variable course criteria

Scandinavian 320 Folwell Hall

Scan 3505 Scandinavian Fiction From 1890 to Present
3 credit(s);Meets CLE req of Literature
Instructor: Banks,William
Description: The purpose of this course is to examine a selection of representative Scandinavian texts from the late 19th century to the present. Examined in the context of the breakdown of traditional forms and changing concepts of reality, we will focus on the search to find new forms for changing historical situations, social codes, values and norms in the tradition of modernity. The selection of authors and texts allows for a reasonable balanced representation of both genre and nationality. With respect to book-length texts, we will be reading the Norwegians Henrik Ibsen, Knut Hamsun, Tarjei Vesaas, and Per Petterson, the Swedes August Strindberg, Par Lagerkvist, and Lars Gustafsson, the Danes Hans Kirk and Isak Dinesen, the Finns Arto Paasilinna, and the Icelander Arnaldur Indridason. Additional shorter texts as well as a selection of 20th century films shall be included. This is an undergraduate course, for both non-majors and majors. All texts are in English. Students are expected to carefully read all assigned readings in advance and actively engage in class discussions. Scandinavian majors will read some assignments in a Scandinavian language.

Scan 3601 Great Literary Works of Scandinavia
3 credit(s);Meets CLE req of Literature
Instructor: Zagar,Monika
Description: The course examines major works of Scandinavian literature from the Middle Ages to the present. It will be divided into three sections: First we’ll discuss an Icelandic saga from the 13th century, a Norwegian folk tale, a tale by Hans Christian Andersen, one play by Henrik Ibsen (An Enemy of the People) and a short story by Karen Blixen/Isak Dinesen. The post-war period will be introduced with a novel by Knut Hamsun (On Overgrown Paths), a novel by Tarjei Vesaas (The Birds), poems by Rolf Jacobsen, and conclude with Ingrid Bergman’s autobiography (Laterna Magica). Our last section will focus on more recent texts, such as Arnaldur Indridason’s crime fiction Jar City, Lars Stien’s novel Antiphony, and conclude with Mikael Niemi’s Popular Music from Vittula. Texts from individual Scandinavian countries are represented almost equally in this course. All texts will be read against their social, cultural, historical and artistic background although close reading of texts will be emphasized. Topics important to Scandinavians, such as equality, nature and sustainability, national identity and globalization will be discussed in depth. Throughout the course the discussions will revolve not only around narrative techniques and the individual creative voices but also around the establishment of criteria that elevate selected texts into masterpieces. In other words, during the course we will explore what defines a great Scandinavian masterpiece. This is an undergraduate course, for both majors and non-majors. All texts are in English. Scandinavian majors will read some texts in their target Scandinavian language.
Style: 30% Lecture, 25% Film/Video, 45% Discussion.
Grading: 25% final exam, 25% reports/papers, 25% in-class presentation, 25% class participation. Students are expected to carefully read all assigned readings in advance and actively engage in class discussions. Merely attending the class does not equal active participation.
Exam Format: Essay

Scan 3614 Blood on Snow: Scandinavian Thrillers in Fiction and Film
Scan 3614 Blood on Snow: Scandinavian Thrillers in Fiction and Film
3 credit(s);Credit will not be granted if credit has been received for: SCAN 5614;Meets CLE req of Global Perspectives; meets CLE req of Literature
Instructor: Zagar,Monika
Description: In this course for undergraduates we will tackle the question why Scandinavian crime fiction has become so popular during the past few decades domestically and abroad. Why is Henning Mankell?s Kurt Wallander, for instance, one of the most popular international literary police detectives of his generation? Why is The Girl with the Dragon Tattoo a worldwide success? This phenomenal popularity stands in stark contrast to the Nordic countries? low crime rates and their peaceful social-democratic welfare states. This course will explore such paradoxical questions thru reading, viewing, and discussing crime novels and films. Students will analyze, discuss, and compare literary texts and films from the Nordic countries against their cultural and political backdrops. Both national and international dimensions of the material will be considered, especially in comparing Scandinavian and American versions of such stories as Insomnia or The Girl with The Dragon Tattoo. Required books: Arnaldur Indridason, Jar City (Iceland, 2000) Maj Sjowall and Per Wahloo, The Laughing Policeman (Sweden, 1968) Henning Mankell, Faceless Killers (Sweden, 1997) Karin Fossum, Don?t Look Back (Norway, 1996) Andrew Nestingen, Crime and Fantasy in Scandinavia: Fiction, Film, and Social Change (Seattle: University of Washington Press, 2008) Required films: Jar City (Iceland, 2007) Insomnia (Norway, 1997); Insomnia (USA, 2002) Smilla? s Sense of Snow (Germany-Sweden-Denmark, 1997) The Girl with the Dragon Tattoo (Sweden, 2009); The Girl with the Dragon Tattoo (USA, 2011) Faceless Killers (Sweden?Sveriges Television, 1994); Faceless Killers (BBC, 2010)
Style: 30% Lecture, 50% Discussion. 20% viewing of visual materials
Grading: 20% response papers, 20% class participation, 20% in-class presentation, 20% final exam, 20% final paper.

Scan 3670 Topics in Scandinavian Studies: The Vikings: Sagas, History, and Lore
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Normann,Lena Elisabeth
Description: This course examines values, traditions, and lore in Viking Age Scandinavia, approximately 796 AD to 1100 AD, concentrating on the Icelandic sagas. The focus of the course is how these texts portray their heroes as warriors, poets, adventures, outlaws, or farmers. The heroic tradition of the Dragon-Slayer will be especially emphasized. This course will also look at the modern interpretation of the Vikings in different media, for example, in art, film, and TV-series. The mysterious question of the Norse arrival to Vinland? as an important part of the Viking legacy is examined in different ways, both from a scientific view point and from the question of national identity. Note: This is an undergraduate course, for both non-majors and majors. All texts are in English.
Style: 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.

Scan 3993 Directed Studies
1-4 credit(s), max credits 12, 12 completions allowed;
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 5614 Blood on Snow: Scandinavian Thrillers in Fiction and Film
3 credit(s);Credit will not be granted if credit has been received for: SCAN 3614;Meet CLE req of Literature
Instructor: Zagar,Monika
Description: In this course for undergraduates we will tackle the question why Scandinavian crime fiction has become so popular during the past few decades domestically and abroad. Why is Henning Mankell?s Kurt Wallander, for instance, one of the most popular international literary police detectives of his generation? Why is The Girl with the Dragon Tattoo a worldwide success? This phenomenal popularity stands in stark contrast to the Nordic countries? low crime rates and their peaceful social-democratic welfare states. This course will explore such paradoxical questions thru reading, viewing, and discussing crime novels and films. Students will analyze, discuss, and compare literary texts and films from the Nordic countries against their cultural and political backdrops. Both national and international dimensions of the material will be considered, especially in comparing Scandinavian and American versions of such stories as Insomnia or The Girl with The Dragon Tattoo. Required books: Arnaldur Indridason, Jar City (Iceland, 2000) Maj Sjowall and Per Wahloo, The Laughing Policeman (Sweden, 1968) Henning Mankell, Faceless Killers (Sweden, 1997) Karin Fossum, Don?t Look Back (Norway, 1996) Andrew Nestingen, Crime and Fantasy in Scandinavia: Fiction, Film, and Social Change (Seattle: University of Washington Press, 2008) Required films: Jar City (Iceland, 2007) Insomnia (Norway, 1997); Insomnia (USA, 2002) Smilla? s Sense of Snow (Germany-Sweden-Denmark, 1997) The Girl with the Dragon Tattoo (Sweden, 2009); The Girl with the Dragon Tattoo (USA, 2011) Faceless Killers (Sweden?Sveriges Television, 1994); Faceless Killers (BBC, 2010)
Style: 30% Lecture, 50% Discussion. 20% viewing of visual materials
Grading: Grade: 20% response papers, 20% class participation, 20% in-class presentation, 20% final exam, 20% final paper.

Scan 5670 Topics in Scandinavian Studies: The Vikings: Sagas, History, and Lore
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Norrman, Lena Elisabeth  
Description: This course examines values, traditions, and lore in Viking Age Scandinavia, approximately 796 AD to 1100 AD, concentrating on the Icelandic sagas. The focus of the course is how these texts portray their heroes as warriors, poets, adventures, outlaws, or farmers. The heroic tradition of the Dragon-Slayer will be especially emphasized. This course will also look at the modern interpretation of the Vikings in different media, for example, in art, film, and TV-series. The mysterious question of the Norse arrival to Vinland as an important part of the Viking legacy is examined in different ways, both from a scientific view point and from the question of national identity. This is a capstone course for GSD major, and a course for graduate students. There will be extra course work for this level.

Style: 30% Lecture, 20% Film/Video, 30% Discussion, 20% Small Group Activities.

Scan 5710 Topics in Old Norse Literature: Old Icelandic Poetry  
3 credit(s), max credits 9, 3 completions allowed;  
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;  
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.

Scientific Computation  
6-145 Jackson Hall

SciC 8594 Scientific Computation Directed Research  
1-4 credit(s), max credits 9, 9 completions allowed;  
Instructor: Lilja, David J  
Description: Student may contact the instructor or department for information.

Security Technologies  
290 McNamara Center

ST 8113 Information and Cyber Security  
A-F only, 2 credit(s);  
Instructor: Isle, Brian Archer  
Description: Student may contact the instructor or department for information.

ST 8200 Special Topics in Security Technologies  
A-F only, 0.5 credit(s);  
Instructor: Isle, Brian Archer  
Description: Student may contact the instructor or department for information.

ST 8220 Vulnerability, Risk and Threat Assessment and Management  
A-F only, 3 credit(s);  
Instructor: Marcus, Alfred A  
Description: Student may contact the instructor or department for information.

ST 8441 Internship (optional)  
A-F only, 0.5 credit(s), max credits 1;  
Instructor: Isle, Brian Archer  
Description: Student may contact the instructor or department for information.

ST 8512 Partnership in Conflict Management: Security/Privacy Law, Social Responsibility and Ethics  
A-F only, 2 credit(s);  
Instructor: Kasprisin, Kenneth Step  
Description: Student may contact the instructor or department for information.

ST 8620 Capstone  
A-F only, 0.5-2 credit(s), max credits 2, 1 completion allowed;
Social Work 105 Peters Hall

SW 1001 Introduction to the World of Social Work: A Global Perspective
3 credit(s);
Instructor: Witt, Jennifer Lynn
Description: Student may contact the instructor or department for information.

SW 1905 Freshman Seminar: High school: Moments, memories, and meanings
1-3 credit(s), max credits 6;
Instructor: Baizerman, Michael Leon
Description: Student may contact the instructor or department for information.

SW 2501W Introduction to Social Justice
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Karcher-Ramos, Muneer
Description: This course is the first of three required courses that are part of the 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: criminal justice/prison system, racial wealth divide and social welfare, and neoliberalism and globalization. We will engage in at least 30 hours of community-based education (service learning) where we will volunteer or intern in social justice organizations locally. We will be constantly asking ourselves questions about the meanings of social power, prestige, and privilege in the United States, particularly as they relate to social justice. This course counts towards your writing intensive requirement, hence the W after the 2501. Writing Intensive courses are meant to advance the writing skills of students, so plan to receive critical feedback on your 25-35 pages of writing throughout the semester.
Style: 10% Lecture, 70% Discussion, 20% Service Learning.
Grading: 10% mid exam, 10% final exam, 20% special projects, 20% reflection paper, 20% class participation, 20% other evaluation. Other evaluation: service learning.
Exam Format: 2 take home exams.

SW 3501 Theories and Practices of Social Change Organizing
A-F only, 4 credit(s);
Instructor: Albrecht, Lisa D
Description: In this course, we will look at various 20th and 21st century social change movements to study how activists & organizers work for social change. Examples: immigrant rights, environmental justice, reproductive justice, GLBT rights, etc. We also read texts about how to work for social justice. We will engage in 30 hours of community-based education (service learning) where we will volunteer in social justice organizations locally. Be prepared to be active in class. Since this is not a lecture class, we will spend most of our time together talking with each other. Students co-lead class, do a group project after reading a book related to a social movement, write about community-based learning experiences & complete a final project. The course is planned carefully. Please don't fall behind; the sequence of readings and activities are meant to be done in the order I've assigned them.
Style: 10% Lecture, 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: STAFF
Description: This course is designed as an introduction to the study of family violence across the lifespan. It will introduce students to history, current theories, research, and policies in the areas of child maltreatment and the larger domain of family violence. The content of the course focuses on current theories, research and policies on violence against women (battering, sexual assault, stalking), child maltreatment (physical and sexual abuse, emotional abuse, neglect) and abuse of vulnerable adults (elderly, non-elderly vulnerable populations). This course is an introduction to the topic. It will give students a basic overview of the issues across types of family violence intervention and prevention and how societies have responded through public policy. The course will also integrate issues of gender, race, culture, age, physical ability, and sexual orientation throughout our examination of these topics. This course is designed to meet the social science diversified core requirement of the University's Liberal Education Requirement. There are no prerequisites for this course, it is open to all undergraduates and serves as the first required course in the Family Violence Prevention Minor. Other required courses in the Minor cover prevention, intervention and gender violence in global perspectives. As such, this course will emphasize theories, research and policies with a focus on family violence against child and adults in North America.
SW 3702 Introduction to Adult Intimate Partner Violence: Intervention and Prevention
3 credit(s);
Instructor: STAFF
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.
Style: 15% Lecture, 15% Film/Video, 20% Discussion, 20% Small Group Activities, 5% Student Presentation, 10% Guest Speakers, 15% Service Learning.
Grading: 25% reports/papers, 10% special projects, 30% reflection paper, 10% in-class presentation, 5% class participation. 20% is Service Learning

SW 3703 Gender Violence in Global Perspective
3 credit(s);
Instructor: STAFF
Description: This course examines gender violence in its multiple forms from a global perspective. An introduction to the history of violence against women, current theories and research on the causes of violence in intimate relationships, past and current responses, and interventions and prevention models to address this worldwide problem will be discussed. Understanding the multiple approaches for addressing gender violence will provide students the knowledge to describe culturally competent intervention and prevention strategies.
Style: 20% Film/Video, 25% Discussion, 15% Small Group Activities, 15% Field Trips, 25% Guest Speakers.
Grading: 50% reports/papers, 25% attendance, 25% reflection paper.

SW 4501 Senior Seminar in Social Justice
A-F only, 4 credit(s);
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 on 1 or 2 contemporary issues. 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. Students submit drafts of portfolio after sharing with peers. Attendance taken.
Exam Format: none

SW 5904 Facilitation & Conflict Mgmt: Humanistic Approach
2 credit(s);
Instructor: Umbreit,Mark S
Description: Student may contact the instructor or department for information.
SW 5905 Permanency in Child Welfare
2 credit(s);
Instructor: Kim, JaeRan
Description: Student may contact the instructor or department for information.

SW 5909 Social Work With Involuntary Clients
2 credit(s);
Instructor: Rooney, Ronald H
Description: This is a blended learning course with 4 in person sessions and 10 on-line weeks. It has been useful for students from across programs and fields that work with clients or persons who have contacts with a professional under pressure.
Style: 20% Lecture, 10% Film/Video, 10% Discussion, 20% Small Group Activities, 5% Student Presentation, 5% Guest Speakers, 30% Web Based. 4 in person sessions; 10 on line weeks including one required chat
Grading: 20% mid exam, 15% quizzes, 40% written homework, 5% attendance, 10% reflection paper, 10% class participation.

SW 5912 Grief & Loss in Social Work Practice
1 credit(s);
Instructor: Remke, Stacy S
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;
Instructor: Maxwell, Stephen
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;
Instructor: Gilbert, MJ
Description: Student may contact the instructor or department for information.

SW 8010 Seminar: Field Practicum I
S-N only, 1-8 credit(s), max credits 8;
Instructor: Mendez, Melissa Ann Batalden
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;
Instructor: Presslein MSW, LICSW, Heidi Mae
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;
Instructor: Jones, Linda E
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;
Instructor: Maxwell, Stephen
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;
Instructor: Gilbert, MJ
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;
Instructor: Mendez, Melissa Ann Batalden
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;
Instructor: Presslein MSW, LICSW, Heidi Mae
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;
Instructor: Nissly, Katie
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;
Instructor: Maxwell, Stephen
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;
Instructor: Gilbert, MJ
Description: Student may contact the instructor or department for information.

SW 8030 Advanced Standing Social Work Practicum
S-N only, 1-8 credit(s), max credits 8;
Instructor: Mendez, Melissa Ann Batalden
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;
Instructor: Presslein MSW, LICSW, Heidi Mae
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;
Instructor: Jones, Linda E
Description: Student may contact the instructor or department for information.

SW 8261 Advanced Social Work Practice in Health Care
A-F only, 3 credit(s);
Instructor: Remke, Stacy S
Description: Student may contact the instructor or department for information.

SW 8263 Advanced Direct Practice and Community-Based Interventions in Gerontology
A-F only, 3 credit(s);
Instructor: Lee, Hee Yun
Description: Student may contact the instructor or department for information.

SW 8351 Advanced Practice I: Families and Children
A-F only, 3 credit(s);
Instructor: Rooney, Ronald H
Description: Student may contact the instructor or department for information.

SW 8352 Advanced Practice II: Families and Children
A-F only, 3 credit(s);
Instructor: Hoy, Judith M
Description: Student may contact the instructor or department for information.

SW 8363 Social Work in Child Welfare
A-F only, 3 credit(s);
Instructor: Wilcox, Carole Claire
Description: Student may contact the instructor or department for information.
SW 8451 Assessment and Engagement in Clinical Social Work Practice
A-F only, 3 credit(s);
Instructor: Hirsch, Angie
Description: Student may contact the instructor or department for information.

SW 8452 Core Concepts in Clinical Social Work Practice
A-F only, 3 credit(s);
Instructor: Caruso, Beverly Jean
Description: Student may contact the instructor or department for information.

SW 8452 Core Concepts in Clinical Social Work Practice
A-F only, 3 credit(s);
Instructor: Stiber, Jill M
Description: Student may contact the instructor or department for information.

SW 8461 Advanced Clinical Social Work Practice with Adults
A-F only, 3 credit(s);
Instructor: Stiber, Jill M
Description: Student may contact the instructor or department for information.

SW 8462 Advanced Clinical Practice With Children and Adolescents
A-F only, 3 credit(s);
Instructor: Nietz, Lauren Wilson
Description: Student may contact the instructor or department for information.

SW 8463 Social Work Practice With Severe and Persistent Mental Illness and Severe Emotional Disturbance
A-F only, 3 credit(s);
Instructor: Kelly, Birgit Olsen
Description: Student may contact the instructor or department for information.

SW 8551 Advanced Community Practice: Assessment, Organizing, and Advocacy
A-F only, 3 credit(s);
Instructor: Lightfoot, Elizabeth Bradford
Description: Student may contact the instructor or department for information.

SW 8563 Advanced Policy Advocacy
A-F only, 3 credit(s);
Instructor: Knochel, Abel
Description: Student may contact the instructor or department for information.

SW 8804 Child Welfare Policy
A-F only, 3 credit(s);
Instructor: Zuel, Timothy Brett
Description: Student may contact the instructor or department for information.

SW 8804 Child Welfare Policy
A-F only, 3 credit(s);
Instructor: Kincaid, Tamara
Description: Student may contact the instructor or department for information.

SW 8805 Aging and Disability Policy
A-F only, 3 credit(s);
Instructor: Moone, Rajean Paul
Description: Student may contact the instructor or department for information.
SW 8806 Health and Mental Health Policy
  A-F only, 3 credit(s);
  Instructor: Jones, Linda E
  Description: Student may contact the instructor or department for information.

SW 8806 Health and Mental Health Policy
  A-F only, 3 credit(s);
  Instructor: Morris, Erich C.
  Description: Student may contact the instructor or department for information.

SW 8807 International and Comparative Social Welfare Policy
  A-F only, 3 credit(s);
  Instructor: Lee, Michael G
  Description: Student may contact the instructor or department for information.

SW 8821 Social Work and Difference, Diversity and Privilege
  A-F only, 2 credit(s);
  Instructor: Jaspersen, Faith Marie
  Description: Student may contact the instructor or department for information.

SW 8821 Social Work and Difference, Diversity and Privilege
  A-F only, 2 credit(s);
  Instructor: Williams, Oliver Joseph
  Description: Student may contact the instructor or department for information.

SW 8821 Social Work and Difference, Diversity and Privilege
  A-F only, 2 credit(s);
  Instructor: Gibson, Priscilla A
  Description: Student may contact the instructor or department for information.

SW 8821 Social Work and Difference, Diversity and Privilege
  A-F only, 2 credit(s);
  Instructor: Lee, Shawyn
  Description: Student may contact the instructor or department for information.

SW 8841 Social Work Research Methods
  A-F only, 2 credit(s);
  Instructor: Fisher, Colleen
  Description: Student may contact the instructor or department for information.

SW 8841 Social Work Research Methods
  A-F only, 2 credit(s);
  Instructor: Merighi, Joseph Richard
  Description: Student may contact the instructor or department for information.

SW 8842 Advanced Social Work Evaluation
  A-F only, 1-3 credit(s), max credits 6;
  Instructor: Remke, Stacy S
  Description: Student may contact the instructor or department for information.

SW 8842 Advanced Social Work Evaluation
  A-F only, 1-3 credit(s), max credits 6;
  Instructor: Kincaid, Tamara
  Description: Student may contact the instructor or department for information.

SW 8842 Advanced Social Work Evaluation
  A-F only, 1-3 credit(s), max credits 6;
  Instructor: Jones, Linda E
  Description: Student may contact the instructor or department for information.
SW 8842 Advanced Social Work Evaluation  
A-F only, 1-3 credit(s), max credits 6;  
Instructor: Sugrue, Erin Patricia  
Description: Student may contact the instructor or department for information.

SW 8842 Advanced Social Work Evaluation  
A-F only, 1-3 credit(s), max credits 6;  
Instructor: Harrison, Mary E  
Description: Student may contact the instructor or department for information.

SW 8842 Advanced Social Work Evaluation  
A-F only, 1-3 credit(s), max credits 6;  
Instructor: Merighi, Joseph Richard  
Description: Student may contact the instructor or department for information.

SW 8842 Advanced Social Work Evaluation  
A-F only, 1-3 credit(s), max credits 6;  
Instructor: Krentzman PhD, Amy R.  
Description: Student may contact the instructor or department for information.

SW 8851 Social Welfare History and Historical Research Methods  
A-F only, 3 credit(s);  
Instructor: Morrissey, Megan Harrison  
Description: Student may contact the instructor or department for information.

SW 8872 Social Work Research Seminar II  
A-F only, 3 credit(s);  
Instructor: Kivnick, Helen Quintessa  
Description: Student may contact the instructor or department for information.

SW 8875 Research Practicum  
S-N only, 2 credit(s), max credits 6, 3 completions allowed;  
Instructor: Lightfoot, Elizabeth Bradford  
Description: Student may contact the instructor or department for information.

SW 8901 Assessment and Treatment of Trauma  
2 credit(s); Advanced Standing or students who have completed entire foundation curriculum including SW 8010 or instr consent Credit will not be granted if credit has been received for: FNRM 3101;  
Instructor: Shannon, Patricia Jean  
Description: Student may contact the instructor or department for information.

SW 8902 Social Work Supervision, Consultation, and Leadership  
2 credit(s);  
Instructor: Stiber, Jill M  
Description: Student may contact the instructor or department for information.

Social and Administrative Pharmacy  7-155 Weaver-Densford Hall

SAPh 5610 Pharmacoepidemiology  
A-F only, 2 credit(s), max credits 3, 1 completion allowed;  
Instructor: Schommer, Jon C  
Description: Student may contact the instructor or department for information.

SAPh 8100 Seminar  
A-F only, 1 credit(s), max credits 8, 8 completions allowed;  
Instructor: Schommer, Jon C  
Description: Student may contact the instructor or department for information.

SAPh 8173 Principles and Methods of Implementing Research
SAPh 8200 Research Problems
1-8 credit(s), max credits 16, 16 completions allowed;
Instructor: Skaar, Debra Jane
Description: Student may contact the instructor or department for information.

SAPh 8420 Social and Behavioral Aspects of Pharmacy Practice
A-F only, 3 credit(s);
Instructor: Gaither, Caroline A
Description: Student may contact the instructor or department for information.

SAPh 8500 Pharmacy and Its Environment
A-F only, 3 credit(s);
Instructor: Hadsall, Ronald S
Description: Student may contact the instructor or department for information.

SAPh 8700 Hospital Pharmacy Administration
A-F only, 3 credit(s);
Instructor: Pastor III, John D
Description: Student may contact the instructor or department for information.

SAPh 8810 Social Psychology of Health Care
3 credit(s);
Instructor: Johnson-Jennings PhD, Michelle D
Description: Student may contact the instructor or department for information.

Sociology 909 Social Sciences Tower

Soc 1001 Introduction to Sociology
4 credit(s); Soc majors/minors must register A-F
Credit will not be granted if credit has been received for: SOC 1011V; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Hartmann PhD, Douglas
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 often unseen 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, 10% Film/Video, 20% Discussion, 10% Small Group Activities, 10% Web Based.
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% class participation.

Soc 1001 Introduction to Sociology
4 credit(s); Soc majors/minors must register A-F
Credit will not be granted if credit has been received for: SOC 1011V; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Gerteis, Joseph Howard
Description: This course is an introduction to the field of sociology. Sociology is the study of human actions and social relations, and the broader patterns of social order that result from them. The course is organized in three parts: we first study social identity and interaction, then how social institutions shape the world we live in. The final section of the course is devoted to understanding how the social world changes. The course involves lecture and lab/discussion sections. Lectures are designed to introduce you to the central ideas and theories of the field and to extend and develop the concepts introduced in reading. Labs allow smaller groups to discuss and apply these ideas more concretely.
Style: 60% Lecture, 10% Discussion, 10% Laboratory.
Grading: 50% mid exam, 30% final exam, 5% quizzes, 5% attendance, 10% class participation.
Soc 1001 Introduction to Sociology
4 credit(s); Soc majors/minors must register A-F; Credit will not be granted if credit has been received for: SOC 1011V; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Abdi, Cawo
Description: This course introduces the pivotal questions that underpin classical and contemporary sociological perspectives. Analysis of how society is possible and how social order is maintained are core to an understanding of individuals as both agents and objects that shape and are shaped by their membership in society. Examining this close relationship between the individual, society, and social structures permits us to understand the dynamics of social and power relations in everyday living. The course explores diverse sociological theories purporting to explain the social, political and economic structures prevailing in our society. It also centralizes the importance of social change and the forces that drive or and hinder change. A key objective of this course is to foster students' critical thinking abilities in their analysis of societal issues, and in their articulations of these issues. Students are expected to be able to apply sociological theories and debates into their everyday practices.
Style: 50% Lecture, 20% Film/Video, 30% Discussion. videos
Grading: 20% final exam, 30% quizzes, 30% reflection paper, 10% class participation, 10% laboratory evaluation. reaction papers
Exam Format: Short answer format

Soc 1011V Honors: Introduction to Sociology
A-F only, 4 credit(s); honors; Credit will not be granted if credit has been received for: SOC 1001; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Abdi, Cawo
Description: This course introduces pivotal questions that underpin classical and contemporary sociological perspectives. Analysis of how society is possible and how social order is maintained are core to an understanding of individuals as both agents and objects that shape and are shaped by their membership in society. Examining this close relationship between the individual, society, and social structures permits us to understand the dynamics of social and power relations in everyday living. The course explores diverse sociological theories purporting to explain the social, political and economic structures prevailing in our society. It also centralizes the importance of social change and the forces that drive or and hinder change. Course aims to foster students' sociological imagination, or their ability to apply sociological theories into their everyday lives. This is a writing intensive course. Students will have an opportunity to obtain feedback on their work in order to improve their writing through revision. Students are also expected to play a greater role in class discussions.
Style: 40% Lecture, 25% Film/Video, 30% Discussion, 5% Small Group Activities.
Grading: 20% mid exam, 20% final exam, 10% quizzes, 30% reflection paper, 20% class participation.

Soc 1641 Social Justice and Ethical Decision Making
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: Dingel, Molly J.
Description: Utilizes foundational sociological concepts to systematically explore the role of policies, regulations, values, norms, and social structures in reinforcing or undermining inequality. Students will exercise decision-making in the context of ethical dilemmas regarding inequality, stratification, research ethics, and biomedical ethics.

Soc 3003 Social Problems
A-F only, 3 credit(s);
Instructor: Logan, Enid
Description: How do we decide that something is a social problem, and what do we do about it? How do race, class and gender impact our understandings of social problems in the contemporary United States? Who is primarily responsible for addressing social problems—individuals, the government, churches, schools, or other institutions? In this class, we will examine some of the major social problems facing the United States today. Specially, we focus on controversies surrounding the 1) American family, 2) crime and punishment, 3) the distribution of wealth & income, 4) the degradation of the environment, and 5) Science, Medicine, and Health. In order to illustrate the issues to be discussed, we will watch segments from a number of recent documentary films such as Everything's Cool, Daddy & Papa, The Boys of Baraka and A Hard Straight.
Style: 30% Lecture, 25% Film/Video, 45% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% class participation.
Exam Format: essay, as well as multiple choice and true/false

Soc 3090 Topics in Sociology: Chinese Society: Culture, Networks & Inequality
3 credit(s), max credits 6;
Instructor: Bian, Yanjie
Description: The aim of this course is to introduce students to sociological perspectives and analyses of cultures, social networks, and socioeconomic inequalities in China today. The instructor will give lectures on relevant topics with the assistance of PPT presentation, and in-class discussions will be organized to exchange opinions about issues of common interests among the enrolled students. A cultural tour to China (Beijing, Shanghai, and Xi'an) will be arranged during the
Soc 3101H Honors: Introduction to the Criminal Justice System
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Social Sciences
Instructor: Samaha, Joel B
Description: Overview and analysis of the U.S. 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 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, 5% Guest Speakers.
Grading: 10% class participation, 90% other evaluation. 3 NONCUMULATIVE exams + a NONCUMULATIVE final%
Exam Format: multiple choice, True/False, and short essays

Soc 3101 Introduction to the Criminal Justice System
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Social Sciences
Instructor: Phelps, Michelle Suzanne
Description: Overview and analysis of the U.S. 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 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, 5% Guest Speakers.
Grading: 35% mid exam, 30% final exam, 35% quizzes. 70% two exams (35% each) and 30% final exam.
Exam Format: Two multiple choice and short answer exams and one final take-home short essay exam

Soc 3101H Honors: Introduction to the Criminal Justice System
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Social Sciences
Instructor: Samaha, Joel B
Description: Overview and analysis of the U.S. 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 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. Honors students are expected to demonstrate greater depth of discussion, depth and to a degree length of writing assignments, presentations, and leadership of the students.
Style: 55% Lecture, 5% Film/Video, 20% Discussion, 10% Small Group Activities, 5% Guest Speakers.
Grading: 10% class participation, 90% other evaluation. 3 NONCUMULATIVE exams + a NONCUMULATIVE final%
Exam Format: multiple choice, True/False, and short essays
Soc 3322W Social Movements, Protests, and Change  
3 credit(s); 1001 or instr consent; soc majors/minors must register A-F  
Credit will not be granted if credit has been received for: GLOS 3322W; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive  
Instructor: Broadbent, Jeffrey Praed  
Description: Focusing on the origins, dynamics, and consequences of social movements, this course explores debates about why and how movements arise and take shape, the dilemmas and challenges for making a movement organization credible. new social forms and identities, and the role of activists as cultural producers and change agents. Throughout the course, we will engage with theoretical frameworks, case studies, and contemporary issues to understand the ways in which social movements challenge existing power structures and construct new possibilities for social change.  
Style: 30% Lecture, 20% Film/Video, 50% Discussion  
Grading: 20% final exam, 60% reports/papers, 20% class participation.

Soc 3211W American Race Relations  
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive  
Instructor: Jollymore, Annie Dille  
Description: What is race? How have our understandings of race and racism changed over time? Why do deep racial inequalities persist in the post-civil rights era? In this class we will use sociological perspectives and theories to address these and other questions regarding the nature of race, racism, and racial relations in the U.S. We will explore the ways in which race continues to be a salient factor in social, economic, and political organization, paying particular attention to contemporary forms of racism in the "age of colorblindness." We will also examine how race informs aspects of personal identity and perspective. In doing so, this course is designed to challenge popular notions about the meaning and importance of race, and to encourage a deeper, more reflective understanding of how race and racism continue to structure American society, and the life experiences of its members. This is an intellectual and often emotional journey that requires critical thought, an open mind, a willingness for self-reflection, and is well worth the trouble!  
Style: 40% Lecture, 20% Film/Video, 25% Discussion, 15% Small Group Activities.  
Grading: 40% reports/papers, 10% quizzes, 40% reflection paper, 10% class participation. There will be four reflection papers, worth 10% each. The final research paper will be assigned and graded in three parts: a proposal (5%), a rough draft (15%), and a final draft (20%) due the last day of class.

Soc 3251W Sociological Perspectives on Race, Class, and Gender  
A-F only, 3 credit(s); Soc majors/minors must register A-F  
Credit will not be granted if credit has been received for: AFRO 3251W; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences; meets CLE req of Writing Intensive  
Instructor: Logan, Enid  
Description: In this course, we examine race, class and gender as bases of identity, stratification, and inequality. We explore the social construction of our core concepts in the contemporary U.S., asking how they shape each of our lives, life-chances, and daily interactions. We will divide our time between lecture, small and large group discussion, and viewing segments of documentary films. This is a writing-intensive course, and students will be expected to do a good deal of formal and informal writing. Active participation in discussion and engagement with the ideas is a must. In this class, you will connect the concepts drawn from the materials to your own life experiences and thoughts about the world, and learn from the experiences and thoughts of others. In the first weeks of the class, we examine the social construction of Race, Class, Gender and Sexuality in American society. We then move to look at the workings of these concepts in different interpersonal and institutional settings. These include the Labor Force, Schools, the Family, the Criminal Justice System, understanding Violence, and the politics of Language. In the last week of the class we discuss individual and corporate approaches to overcoming injustice.  
Style: 30% Lecture, 20% Film/Video, 50% Discussion.  
Grading: 20% final exam, 60% reports/papers, 20% class participation.
and keeping it going, the relationship between social movements and established political parties and institutions, the transition from movement to non-governmental organization (NGO) or other formalized association, and the role of social movements and protest in bringing about change. The course is organized around general theoretical issues concerning why people join movements, why they leave or remain in movements, how movements are organized, the strategies and tactics they use, and their long-term and short-run impact. To illustrate these theoretical concepts, we will read a number of articles about social movements in one region of the world: East Asia (Japan, China, South Korea, Taiwan, Hong Kong and Singapore). This region is of great economic importance but does not have the presence or at least historical depth of the liberal democratic state compared to the US and Western Europe, the usual sites for cases of social movement study. Studying social movements in this relatively unanalyzed context will help clarify many existing theories and suggest directions for new theories and concept.

Style: 45% Lecture, 30% Discussion, 15% Small Group Activities, 5% Student Presentation, 5% Guest Speakers.
Grading: 10% mid exam, 10% final exam, 60% reports/papers, 5% quizzes, 5% in-class presentation, 10% class participation. This is a writing intensive course. The student writes the paper in three sections, gets peer and instructor feedback on each, and then combines them into the full final paper.

Exam Format: Multiple choice and short essay

Soc 3451W Cities & Social Change
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Gowan, Teresa
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 "Brazilianization" 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. Honors students are expected to demonstrate greater depth of discussion, depth and to a degree length of writing assignments, presentations, and leadership of the students.

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 3451V Honors: Cities & Social Change
A-F only, 3 credit(s); 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 "Brazilianization" 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. Honors students are expected to demonstrate greater depth of discussion, depth and to a degree length of writing assignments, presentations, and leadership of the students.

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 3501 Sociology of Families
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Meier, Ann
Description: We all are part of families, for better and for worse. Families are universally important social institutions. This course, sociology of families, will focus on families in the contemporary U.S. It will engage core sociological theories and research evidence about many common features of families including ideas about love, marriage, gender, parenthood, adulthood, and sex and sexuality. We will explore if and how families are influence by societal conditions like the economy or common religious beliefs. We will also learn about how families and groups of people can create and maintain innovative family models leading to social change in society. This is a three-credit course that will require approximately nine hours per week (including class time), averaged over the semester, in order to complete the work of the course to achieve an average grade. We will read three books ranging from 200-300 pages each over the course of the semester. In addition, we will read 2 to 3 short, non-technical articles each week. All included, students should plan to read 60-75 pages a week. Writing will include a 5-7 page critical reflection paper on one of the three books and either short answer and essay exams (2 total) or quizzes (12 total).

Exam Format: Mostly long answer.
**Soc 3503 Asian American Identities, Families and Communities**

**Style:** 50% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities, 10% Guest Speakers.

**Description:** This course provides a sociological overview of Asian American identities, families and communities. It starts by looking at the experiences of second generation Asian American young adults in order to consider questions about who is viewed as American and the ways in which Asian Americans complicate the racial landscape of the contemporary United States. This unit introduces theories of immigration, identity formation, intergenerational relationships, and acculturation, particularly as they pertain to Asian Americans, and that appear throughout the course. To place these experiences within a broader historical, structural, and cultural context the second unit provides both an overview of the history of Asians and Asian Americans in the United States and examines the contemporary demographics of Asian Americans. This unit emphasizes the diverse experiences of Asian American communities and families, highlighting ethnic, cultural, gender, generation, and class variations, as well as historical and contemporary experiences of marginalization, racial othering, and discrimination. The final unit of the class will allow students to apply these theories and data to understanding two specific cases with particular relevance for Minnesota: Hmong immigrant experiences and transnational adoption. Throughout the course we will consider the ways in which society affects individual?s, and how in turn, individual?s affect society. Course projects will be utilized to help students gain a concrete appreciation of how sociological perspective sheds light on lived experience of contemporary Asian Americans.

**Style:** 40% Lecture, 10% Film/Video, 30% Discussion, 10% Small Group Activities, 10% Student Presentation.

**Grading:** 45% mid exam, 25% reports/papers, 5% journal, 25% class participation.

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**Soc 3581 Medical Sociology and Technology**

**Style:** 30% Lecture, 20% Film/Video, 20% Discussion, 20% Small Group Activities.

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

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**Soc 3701 Social Theory**

**Style:** Online

**Grading:** See attached syllabus

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**Soc 3701 Social Theory**

**Style:** 60% Lecture, 40% Discussion.

**Grading:** 30% reports/papers, 10% class participation, 60% other evaluation. 4 in-class mini-exams

**Exam Format:** short answer and short essay
Soc 3811 Basic Social Statistics

Description: This course will introduce sociology majors to basic statistical measures and procedures that are used to describe and analyze quantitative data in sociological research. The topics include (1) displays of frequency and percentage distributions, (2) measures of central tendency and dispersion, (3) measures of association and correlation, (4) bivariate regression, and (5) basics about probability and statistical inference. Lectures on these topics will be given in class meetings, and lab exercises are designed to help students learn statistical skills needed to analyze quantitative data provided in the class. In addition to attendance to lectures and labs, students are expected to read 15-20 pages of the text per week. There will be a midterm exam and a final exam. Students will need a calculation for assignments and exams. - The in-class exams will assess your comprehension of course materials. The format may include short answer, multiple choice, and/or essay questions. It will be open-book and open-notes. - The weekly written assignments are short, one-page (single space) analytical exercises that demonstrate your understanding or grappling of that week’s readings. These are due at the beginning of class on Wednesday during the 10 weeks in which readings are assigned. In these exercises, you are expected to: 1) cite a particular passage or sentence that you found intriguing; 2) provide a brief explanation why you chose this passage/sentence; and 3) articulate a question for further discussion. - You will have the option of choosing a creative project or an analytic paper. The objective of this assignment is to delve more deeply into one or more of the theorists or theories discussed in class. More detailed instructions will be provided separately.

Soc 3801 Sociological Research Methods

4 credit(s);
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
Instructor: Bian, Yanjie

Description: This course will introduce sociology majors to basic statistical measures and procedures that are used to describe and analyze quantitative data in sociological research. The topics include (1) numerical data description with frequency table, central tendency, and dispersion; (2) graphical data presentation; (3) basics on probability theory and statistical inference; (4) bivariate association and correlation; (5) bivariate regression. Laboratory sessions teach basic computing and data manipulation techniques in the IBM SPSS environment. Students are expected to apply theoretical knowledge to investigate real survey data and complete weekly assignments during laboratory sessions. In addition to attending lectures and labs, students are expected to read 15-20 pages of the text per week. There will be two (2) midterm exams and one (1) final exam. Students will need a scientific calculator for

Soc 3811 Basic Social Statistics

4 credit(s); Meets CLE req of Mathematical Thinking
Instructor: Zhang, Lei

Description: This is an entry-level social statistics course for undergraduate sociology majors. It emphasizes statistical descriptions and inferences of survey data in a learning-by-doing style. Lectures of this course expose students to theoretical bases of statistical methods with rich and diverse examples of sociological issues and cover following topics (1) numerical data description with frequency table, central tendency, and dispersion; (2) graphical data presentation; (3) basics on probability theory and statistical inference; (4) bivariate association and correlation; (5) bivariate regression. Laboratory sessions teach basic computing and data manipulation techniques in the IBM SPSS environment. Students are expected to apply theoretical knowledge to investigate real survey data and complete weekly assignments during laboratory sessions. In addition to attending lectures and labs, students are expected to read 15-20 pages of the text per week. There will be two (2) midterm exams and one (1) final exam. Students will need a scientific calculator for
Soc 4101V Honors: Sociology of Law
A-F only, 3 credit(s);[1001, 3101, 3102] or 3701 recommended, soc majors/minors must register A-F
Credit will not be granted if credit has been received for: SOC 4101W; 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. Honors students are expected to demonstrate greater depth of discussion, depth and to a degree length of writing assignments, presentations, and leadership of the students.
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 4101W Sociology of Law
A-F only, 3 credit(s);[1001, 3101, 3102] or 3701 recommended, soc majors/minors must register A-F
Credit will not be granted if credit has been received for: SOC 4101V; 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 4102 Criminology
A-F only, 3 credit(s);3101 or 3102 or 3111 recommended, soc majors/minors must register A-F
Credit will not be granted if credit has been received for: SOC 4103;
Instructor: Selmini,Rossella
Description: In this course we cover a broad range of topics related to criminology as a theoretical discipline and as a basis for criminal justice policy making. In the first part we look at the main criminological explanations of crime, with a special focus on the European origins of criminology, revisiting foundational works by Cesare Lombroso and Enrico Ferri and analysing their influence in the rest of the world. We then examine the classical sociological explanations of crime developed in the US during the past century through a selection of readings from influential American sociologists whose works offered new perspectives on crime causation and also influenced criminal justice and social policies. The second part of the course is mostly dedicated to looking critically at specific crime phenomena, including youth violence and gender crimes. In the final part we consider the most recent theoretical developments in criminology (green criminology, feminist criminology, cultural criminology, and comparative criminology) and a few current controversies: public criminology, crime and the media, crime trends and their explanation, and recent tendencies in criminal justice policies around the world. Objectives: The course will help students broaden their knowledge of criminological topics across space and time. Students? understanding will be enriched by analysing criminological theories from historical and comparative perspectives. The final part of the course, mostly dedicated to current key issues and debates, will help students think critically about criminological explanations of crime and their impact on criminal justice policies and to have a better understanding of the future of criminology.
Style: 60% Lecture, 20% Film/Video, 10% Discussion, 10% Small Group Activities.
Grading: 30% mid exam, 40% final exam, 20% reports/papers, 5% attendance, 5% class participation.
Exam Format: Short answer and essay questions

Soc 4105 Sociology of Punishment and Corrections
A-F only, 3 credit(s);
Instructor: Phelps,Michelle Suzanne
Description: This course is an in-depth sociological analysis of U.S. penal institutions and their role in society. We
examine the origins, functions, and effects of the U.S. system of mass incarceration and its role in reshaping contemporary patterns of inequality and racial stratification. Other highlighted topics include women's imprisonment, community corrections, prison guards' unions, felony disenfranchisement, and the death penalty. The class will focus particular attention on Michelle Alexander's "New Jim Crow" book, which argues that the carceral system functions as a modern-day Jim Crow system of racial control. This book has received a record amount of popular attention and is the center of important policy debates today. We will also watch a series of documentaries, or "video ethnographies," to explore the lived experiences of people in the criminal justice system.

**Style:** 60% Lecture, 15% Film/Video, 20% Discussion, 5% Guest Speakers.

**Grading:** 30% final exam, 70% quizzes. Reading quizzes and short memos (70%) and final take-home exam (30%).

**Exam Format:** Multiple choice, short answer, memos, and take-home essay exam.

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**Soc 4108 Current Issues in Crime Control**

3 credit(s);

Instructor: Whetstone, Sarah Lynn

**Description:** In this course, Drugs and Society, we draw on key literature, case studies, film and popular media, and class discussion to explore the social dimensions of American drug control, from the earliest moral crusades against opiate and marijuana use, to the fight against the meth epidemic. We begin by reviewing competing theories of why individuals use drugs, and then examine shifting patterns of drug control by asking how substances have been criminalized, medicalized, or deregulated at different historical moments. Why are some highs legal, while others are subject to intense surveillance and punishment? To answer these questions, we will examine how government agencies, interest groups, and popular culture have defined the scope and nature of the "drug problem," and promoted different policy solutions, including the punitive War on Drugs, prevention or treatment, and decriminalization or legalization. We look at the impact of changing drug law and sentencing policy on incarceration, the criminal justice system, and other social control agencies. Finally, we examine how the War on Drugs has influenced race, class, and gender inequality-- impacting drug users, families, the informal economy and entire communities. This course will encourage you to think critically about the policing of bodies and behaviors through the study of drug control.

**Style:** 40% Lecture, 15% Film/Video, 30% Discussion, 15% Small Group Activities.

**Grading:** 25% Lecture, 25% final exam, 40% reports/papers, 10% class participation.

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**Soc 4149 Killing**

3 credit(s);

Instructor: Malmquist, Carl P

**Description:** Sociological, legal, and psychological aspects of diverse types of killing. The topic of "normal" killings is contrasted with various pathological types. Subtopics include: mentally disturbed killings, sexual killings, killings within families, gang killings, and terrorist killings.

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**Soc 4162 Criminal Procedure in American Society**

3 credit(s);

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 violations; social science, the courts, and the law of criminal procedure. Teaching methods: Read and discuss U.S. Supreme Court and other cases. Textbooks and other reading: Samaha, Criminal Procedure 8th 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:** 60% identification, definition; description and explanation of legal concept(s) and social science findings (no multiple choice); 10% case briefs; 30% discussion reaction essays

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**Soc 4305 Society and the Environment: A Growing Conflict**

A-F only, 3 credit(s); 1001 or environmental course recommended; soc majors/minors must register A-F; Credit will not be granted if credit has been received for: GLOS 4305;

Instructor: Broadbent, Jeffrey Praed

**Description:** Over the past 150 years, human society's effect on its local and global environment has increased dramatically. Nowadays, those environmental harms are more and more coming back to harm humans as well as other species. The biggest example of this negative feedback is global climate change. If humanity continues to pour greenhouse gasses like carbon dioxide into the atmosphere, it will get hit with intensifying disasters. According to James Hansen, these could eventually even wipe out the human species. This course explores why this situation has come about and what we can do about it. Three factors: growth of population, growth capacity to buy more stuff, and the technology to make lots of stuff?all these require energy produced by burning fossil fuels that emits carbon dioxide into the atmosphere. We need to understand why we as a group, despite available information, have let this problem get so bad. Only then can we
Soc 4311 Race, Class, and the Politics of Nature
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: GLOS 4311;
Instructor: Pellow, David
Description: This course introduces students to the theoretical and historical foundations of environmental racism and environmental inequality. We will examine and interrogate both the social scientific evidence concerning this phenomenon and the efforts by governments, residents, workers, and activists to combat it. We will consider the social forces that create environmental inequalities, so that we may understand their causes and consequences. We will also consider ideas and practices that may lead to 1) a more equitable social distribution of the costs and benefits of markets and 2) more ecologically sustainable forms of production. Students will be expected to master several social scientific theories and concepts related to the subject matter. In particular, we pay close attention to the ways in which the concept of race intersects with gender, class, citizenship, and nation in order to better understand how systems of power and inequality are constructed, reinforced, and challenged.
Style: 65% Lecture, 10% Film/Video, 15% Discussion, 5% Small Group Activities, 5% Guest Speakers. Service learning component is optional
Grading: 30% mid exam, 30% final exam, 10% quizzes, 20% written homework, 10% class participation.
Exam Format: Both the midterm and final exams will be take home tests requiring the use of course readings, lectures, discussions, and films to answer questions.

Soc 4451 Sport and Society
3 credit(s); 1001 recommended, soc majors/minors must register A-F; Credit will not be granted if credit has been received for: SOC 4451;
Instructor: Hartmann PhD, 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" 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 naively 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.

Soc 4451H Honors: Sport and Society
A-F only, 3 credit(s); 1001 recommended, soc majors/minors must register A-F; Credit will not be granted if credit has been received for: SOC 4451;
Instructor: Hartmann PhD, 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" 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 naively celebrated, trivialized, or simply dismissed by both scholarly and public audiences alike. Honors students are expected to demonstrate greater depth of discussion, depth and to a degree length of writing assignments, presentations, and leadership of the students.
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.

Soc 4551 Sociology of Sexualities
3 credit(s); Soc majors/minors must register A-F; Credit will not be granted if credit has been received for: SOC 4551H; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Hull, Kathleen E
Description: Sociology of Sexualities is an advanced survey course covering social scientific approaches to the study of sexual attitudes, behaviors and identities. The course challenges students to examine taken-for-granted beliefs about the naturalness of various sexual phenomena and deepens students' understanding of how various social forces shape people's sexual lives. The course will focus on the diversity of thought, behavior and lived experience of individuals with regard to sexuality.
Style: 60% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities.
Grading: 25% quizzes, 75% other evaluation. 3 exams each counting 25%
Exam Format: multiple choice, short answer, author-quote matching, essays

Soc 4551H Honors: Sociology of Sexualities
A-F only, 3 credit(s); Soc majors/minors must register A-F Credit will not be granted if credit has been received for: SOC 4551; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Hull, Kathleen E
Description: Sociology of Sexualities is an advanced survey course covering social scientific approaches to the study of sexual attitudes, behaviors and identities. The course challenges students to examine taken-for-granted beliefs about the naturalness of various sexual phenomena and deepens students' understanding of how various social forces shape people's sexual lives. The course will focus on the diversity of thought, behavior and lived experience of individuals with regard to sexuality. Honors students will read a monograph in the sociology of sexualities and complete a written summary/critique of the book and a brief (5-8 minute) in-class presentation on it.
Style: 60% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities.
Grading: 10% reports/papers, 25% quizzes, 5% in-class presentation, 60% other evaluation. 3 exams each counting 20%
Exam Format: multiple choice, short answer, author-quote matching, essays

Soc 4966W Major-Project Seminar
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Kelly, Erin L
Description: This course is designed to: a) provide you with an opportunity to reflect on what you have learned as a sociology major; b) use that knowledge to write a senior thesis (usually based on community service learning); and c) think about how the knowledge, skills, and insights of sociology can be used and applied in your lives and careers outside of the University. It is, in short, a capstone course. The focus is on how sociological knowledge, research, and thought help to promote critical thinking, effective communication, an appreciation of diversity, and social responsibility in public life. The main goal of the course is to guide you through the process of writing your senior thesis paper, a graduation requirement for all Sociology majors. Course materials encourage you to reflect on the role of sociological knowledge in the contemporary world and to connect your sociological knowledge to a community-based senior research project. Classes will include a combination of lectures, active learning exercises, writing exercises to help you prepare your main paper, and discussions of the required readings.
Style: 30% Lecture, 40% Discussion, 15% Small Group Activities, 15% Student Presentation.

Soc 4966W Major-Project Seminar
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Heise, Kia
Description: This course is designed to: a) provide you with an opportunity to reflect on what you have learned as a sociology major; b) use that knowledge to write a senior research project based on community service learning; and c) think about how the knowledge, skills, and insights of sociology can be used and applied in your lives and careers outside of the University. The focus is on how sociological knowledge, research, and thought help to promote critical thinking, effective communication, an appreciation of diversity, and social responsibility in public life. The main goal of the course is to guide you through the process of writing your senior thesis paper, a graduation requirement for all Sociology majors. Course materials encourage you to reflect on the role of sociological knowledge in the contemporary world and to connect your sociological knowledge to a community-based senior research project. Classes will include a combination of lectures, active learning exercises, writing exercises to help you prepare your main paper, and discussions of the required readings.
Style: 10% Lecture, 10% Film/Video, 40% Discussion, 10% Student Presentation, 30% Service Learning.
Grading: 60% reports/papers, 10% attendance, 20% journal, 10% class participation.

Soc 4978V Senior Honors Proseminar II
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Gerteis, Joseph Howard
Description: This second-semester seminar allows us to complete research and writing the senior thesis papers.
Style: 33% Discussion, 33% Small Group Activities, 33% Student Presentation.
Grading: 33% reports/papers, 33% written homework, 33% in-class presentation.

Soc 5090 Topics in Sociology: Reframing Mass Violence-Human Rights/Social Memory
1 credit(s), max credits 9, 3 completions allowed;
Instructor: Frey, Barbara A
Description: REFRAMING MASS VIOLENCE: HUMAN RIGHTS AND SOCIAL MEMORY IN LATIN AMERICA AND SOUTHERN EUROPE (1 Credit - Topics Course) This course will explore the particular developments and transnational entanglements of social memories in societies revisiting their legacies of dictatorship, state terror, and grave human rights violations. The focus will be on Latin America and Southern Europe and the contemporary processes of re-interpretation and re-framing of a) the atrocities themselves and b) the transitional justice models that were adopted in their aftermaths. The course is organised as a lecture series in which experts from the countries of study will discuss their work and engage in dialogue with local scholars and students. The course will be co-facilitated by Barbara Fry (Human Rights Program), Ana Forcinito (Spanish and Portuguese) and Alejandro Baer (Sociology, Center for Holocaust and Genocide Studies). This course is part of a Research Collaborative funded by the Institute of Advanced Studies. Session will take place in Room 235 NOLTE (East Bank)
Style: 20% Lecture, 10% Film/Video, 70% Guest Speakers. Seminar will meet on the following Thursdays from 3pm to 4:30pm Jan 23, Feb 6, Feb 20, March 6, March 27, April 10, April 24, May 8
Grading: 100% reports/papers. Pass/No Pass

Soc 8001 Sociology as a Profession
S-N only, 1 credit(s), max credits 2;
Instructor: Gerteis, Joseph Howard
Description: This is the first part of a one-credit, two-semester seminar designed for first-year graduate students in Sociology. The seminar is designed to give you a chance to explore the "hidden curriculum" of graduate school. During the first semester, the seminar will focus on many practical matters of graduate school and professional life, as well as issues related to the development of a professional identity and purpose. To facilitate a student-centered focus, the seminar is designed to be open-ended, flexible, and interactive. That said, we do have a number of formal goals: (1) to provide practical information about sociology, academic life, and career goals; (2) to introduce resources and opportunities available in graduate school; (3) to provide a space to discuss presentations by students, faculty and job candidates in the department; (4) to foster an environment promoting creativity, a free exchange of ideas, and a place to ask questions and to form ideas about our work and our place in the discipline.
Style: 80% Discussion, 20% Guest Speakers. We will have everyone sign up to help with weekly preparation to help foster our discussion.
Grading: There are no readings, exams or other formal requirements. The only requirements are to (1) Be there each week; (2) participate; and (3) Be reflective and be yourself as honestly as you can.

Soc 8011 Sociology of Higher Education: Theory and Practice
3 credit(s);
Instructor: Swartz, Teresa Toguchi
Description: This course explores teaching and learning sociology in the contemporary United States. We will first situate teaching and learning within the broader social and political contexts of higher education in the United States, and consider the ways in which this context affects our role as teachers. We will spend the remainder of the semester exploring the craft of teaching. The course aims to provide students with a forum through which to learn about and reflect on pedagogical theory and practice. The goals of the course are to 1) think broadly about how we are influenced by, but also through our actions influence, higher education trends, and 2) develop the skills necessary to become excellent teachers, including encouraging active learning, teaching critical reasoning, delivering effective lectures, facilitating lively discussions, responding effectively to student writing, and fairly evaluating student and teacher performances. The course should encourage those who have had prior teaching experience to reflect more systematically on their classroom behavior and ways to improve it. It should help those who have not had any teaching experience by sensitizing them to various dimensions of effective teaching.

Soc 8090 Topics in Sociology: Law & Society Review: Journal Editing Seminar
1.5-3 credit(s), max credits 12, 4 completions allowed;
Instructor: Savelsberg, Joachim J
Description: This course is co-taught by Timothy R. Johnson (Political Science) and Joachim Savelsberg (Sociology), incoming editors of the Law & Society Review, the official journal of the Law & Society Association and the world's leading journal in the field of law and society studies. This is the first offering in a series of six semesters. Johnson will take the lead in 2013/14, Savelsberg in 2014/15. Students will read submitted papers that receive 'revise and resubmit' decisions and the reviewers' comments and discuss them with the editors. Different students may take the lead on specific papers in line with their substantive and methodological interests and expertise. Suggestions developed during these discussions will be incorporated into the R&R letters the editors will send out to authors. Students will thus get immersed in a range of cutting edge work done in the field. They will further gain crucial insights into the decision making processes associated with journal publishing. In this respect the course is intended to be a major professionalization tool that should be most helpful to graduate students who prepare to enter academic careers in which publishing papers in journals will be a crucial component. The process should make for an engaging collaborative, intellectual and professional, experience.
Style: 85% Discussion, 15% Student Presentation.
Grading: 20% in-class presentation, 80% class participation.
Soc 8090 Topics in Sociology: Sociology of Education: Journal Editing Seminar
1.5-3 credit(s), max credits 12, 4 completions allowed;
Instructor: Warren, John R
Description: This course is centered around the journal Sociology of Education, which will be housed at the U of MN beginning July 1, 2013. Class sessions will focus on the operations of the journal, with an eye toward teaching students how research articles are evaluated; how the review process can shape and improve research; how the process of turning a first draft of a paper into a polished and published article unfolds; how to critique ongoing research in a professional way; and how to respond to such critiques about your own work. Along the way, involvement will provide an opportunity for students to gain theoretical, methodological, and substantive insight into a wide range of issues that touch on education in one way or another. Each week, students will (among other things) discuss articles that have been submitted; discuss external peer reviews of those articles; debate what decision should be made about submissions; think together about how to solicit more and better submissions; think together about reviewers and the review process; and think together about how to best use the journal's social media presence. Students who participate will be expected to do some work in preparation for each meeting. Project meetings will be lively and interactive, and will differ in focus and content from week to week.

Soc 8190 Topics in Law, Crime, and Deviance: Gender, Mass Violence & Crime in International Law
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Ferrales, Gabrielle
Description: This seminar course examines crime and criminal justice as a gendered phenomena with a specific emphasis on gender-based violence during conflict. It explores how notions of different types of masculinity and femininity are embedded in and influence criminal behaviors, the operation of the criminal justice system, and the evolution of international criminal law. Course readings draw on historical and contemporary research and various theoretical perspectives, some of which present very different ways to think about how crime is shaped by gender and sex.
Style: 100% Discussion.
Grading: 50% reports/papers, 25% reflection paper, 25% class participation.

Soc 8590 Topics in Life Course Sociology: Work, Health & the Gendered Life Course
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Moen, Phyllis E
Description: This class introduces sociological perspectives on the relationship between work conditions, health and well-being, drawing on stress-process, life course, constrained choice, institutional, demographic, and gender framings. The class will focus on three broad themes. The first theme is that occupational and organizational structures and interactions around work promote health and illness. The second theme is that this is a dynamic, recursive process, producing and reproducing disparities in health and health-related resources across age groups, social classes, race and ethnic subgroups, and gender. The third theme is that the work-health interface, the social organization of work and of health-care, and strategic patterns of adaptation to stressful circumstances vary across time and across cultures, and can be changed.

Soc 8735 Sociology of Culture
3 credit(s);
Instructor: Edgell, Penny A
Description: This course provides an overview of cultural sociology. We will begin with central readings in theory and method to give students a background in the motivating questions and debates in the subfield. We will consider why the field has moved away from a focus on culture as ideas and ideals and toward a conception of culture as practice and institution, and we will engage with current debates about how best to conceptualize culture (as a deep or elaborated code or as a repertoire of action?), and related questions about culture's role in shaping cognition. We will also read empirical work that focuses on the relationship between culture and symbolic boundaries, and the role of embodiment and emotion in cultural analysis.
Style: 80% Discussion, 20% Student Presentation.
Grading: 70% reports/papers, 10% in-class presentation, 20% class participation.

Soc 8801 Sociological Research Methods
A-F only, 4 credit(s);
Instructor: Hull, Kathleen E
Description: Student may contact the instructor or department for information.

Soc 8811 Advanced Social Statistics
A-F only, 4 credit(s);
Instructor: Almquist, Zack W
Description: Statistical methods for analyzing social data. This course is designed for Sociology graduate students and assumes a background equivalent to Soc 5811 Intermediate Social Statistics. The class will be comprised primarily of
introduction to modern statistical techniques such as categorical data analysis (e.g., logistic regression), time series analysis (e.g., event history analysis), and modern computational statistics (e.g., monte carlo tests). Labs are organized to help students with the data analysis required to complete the weekly exercises, develop the term paper, and to further training in statistical software used by social science researchers.

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

**Grading:** weekly/bi-weekly assignments, 1 take-home exam, 1 research paper.

**Soc 8890 Advanced Topics in Research Methods: Bayseian Methods**

3 credit(s), max credits 6;  
**Instructor:** Gill, Jefferson Morris  
**Description:** Student may contact the instructor or department for information.

**Software Engineering  6-202 Kenneth H Keller Hall**

**SEng 5199 Topics in Software Engineering**

A-F only, 2 credit(s), max credits 6;  
**Instructor:** Kruse, John Michael  
**Description:** Student may contact the instructor or department for information.

**SEng 5199 Topics in Software Engineering**

A-F only, 3 credit(s), max credits 6;  
**Instructor:** Smith, Rick  
**Description:** Student may contact the instructor or department for information.

**SEng 5199 Topics in Software Engineering**

A-F only, 3 credit(s), max credits 6;  
**Instructor:** Schutta, Nathaniel T  
**Description:** Student may contact the instructor or department for information.

**SEng 5199 Topics in Software Engineering**

A-F only, 3 credit(s), max credits 6;  
**Instructor:** Selvig, Andrew J  
**Description:** Student may contact the instructor or department for information.

**SEng 5802 Software Engineering II: Software Design**

A-F only, 3 credit(s);  
**Instructor:** Reily, Ken  
**Description:** Student may contact the instructor or department for information.

**SEng 5811 Software Testing and Verification**

A-F only, 2 credit(s);  
**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;  
**Instructor:** Larson, Amy Caroline  
**Description:** Student may contact the instructor or department for information.

**SEng 5852 Quality Assurance and Process Improvement**

A-F only, 3 credit(s);  
**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);
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.

SEng 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Vayghan, Jamshid A.
Description: Student may contact the instructor or department for information.

SEng 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Kan, Stephen Hauwah
Description: Student may contact the instructor or department for information.

SEng 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Calvo, Michael Joseph
Description: Student may contact the instructor or department for information.

SEng 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Schutta, Nathaniel T
Description: Student may contact the instructor or department for information.

SEng 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Whalen, Michael W
Description: Student may contact the instructor or department for information.

SEng 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Freese, Jesse David
Description: Student may contact the instructor or department for information.

SEng 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Heimdahl, Mats
Description: Student may contact the instructor or department for information.
SEng 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Srivastava, Jaideep
Description: Student may contact the instructor or department for information.

SEng 8891 Independent Project
2-6 credit(s), max credits 12;
Instructor: Bitzenhofer, Neil A
Description: Student may contact the instructor or department for information.

Soil, Water, and Climate 439 Borlaug Hall

Soil 2125 Basic Soil Science
A-F only, 4 credit(s); [CHEM 1015, CHEM 1017] or CHEM 1021 or equiv
Credit will not be granted if credit has been received for: SOIL 1125; Meets CLE req of Environment; meets CLE req of Physical Sciences
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);
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;
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;
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 5125 Soil Science for Teachers
3 credit(s); Credit will not be granted if credit has been received for: SOIL 1125;
Instructor: Lamb, John A
Description: Student may contact the instructor or department for information.

Soil 5125 Soil Science for Teachers
3 credit(s); Credit will not be granted if credit has been received for: SOIL 1125;
Instructor: Lamb, John A
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); 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.
Somali 1222 Beginning Somali II
A-F only, 5 credit(s);
Instructor: Ahmed, Said Salah
Description: Student may contact the instructor or department for information.

Somali 1226 Accelerated Beginning Somali II
A-F only, 5 credit(s);
Instructor: Ahmed, Said Salah
Description: Student may contact the instructor or department for information.

Sonography  University of Minnesota Rochester

Sono 3112 Abdomen II Sonography
A-F only, 3 credit(s);
Instructor: Youngs, Diane J
Description: Student may contact the instructor or department for information.

Sono 3302 Clinical Practicum II
A-F only, 5 credit(s);
Instructor: Youngs, Diane J
Description: Student may contact the instructor or department for information.

Sono 3312 Vascular Technology II
A-F only, 3 credit(s);
Instructor: Youngs, Diane J
Description: Student may contact the instructor or department for information.

Sono 3401 OB Sonography
A-F only, 2 credit(s);
Instructor: Youngs, Diane J
Description: Student may contact the instructor or department for information.

Sono 4112 Ultrasound Physics II
A-F only, 2 credit(s);
Instructor: Youngs, Diane J
Description: Student may contact the instructor or department for information.

Sono 4402 Clinical Practicum V
A-F only, 8 credit(s);
Instructor: Youngs, Diane J
Description: Student may contact the instructor or department for information.

Sono 4502 Research Project and Publication II
A-F only, 1 credit(s);
Instructor: Youngs, Diane J
Description: Student may contact the instructor or department for information.

Sono 4602 Professional Growth and Development
A-F only, 1 credit(s);
Instructor: Youngs, Diane J
Description: Student may contact the instructor or department for information.

Sono 4802 Mock Exams
S-N only, 1 credit(s);
Instructor: Youngs, Diane J
Description: Student may contact the instructor or department for information.
Span 144 Intermediate Medical Spanish
S-N only, 0 credit(s);
Instructor: Lopez, Maria Emilce
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.

Span 344 Advanced Medical Spanish
S-N only, 0 credit(s);
Instructor: Lopez, Maria Emilce
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);
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 214 to obtain a permission 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, "Gente" third ed (Tercera) is accompanied by a workbook. 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. 10% listening and workbook exercises, 15% oral interview type evaluations, 10% written compositions and writing activities, 20% unit exams
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 1001 Beginning Spanish
5 credit(s);
Instructor: Matos-Schultz, F.
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. Spanish 1001 is a first-semester Spanish course developed for students with no previous or less than two years of language experience. The instruction and context are delivered by a combination of online activities.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person exams

Span 1002 Beginning Spanish
5 credit(s); 1001 completed at UMNTC, dept consent Credit will not be granted if credit has been received for: SPAN 4022;
Instructor: STAFF
Description: This course is for the student who has completed Spanish 1001 at the University of Minnesota. Upon entering this course, the student should know basic vocabulary and present and past tense forms, that is to say, be familiar with the material between the "Leccion Preliminar" to "Leccion 9" of the text, "¿Sabias que...?", 3rd ed. Spanish is spoken almost exclusively in class. Spanish 1002 continues to focus on the development of communicative skills: listening, speaking, reading and writing. One day a week students watch "Destinos", an educational television program in Spanish. The text "¿Sabias que...?", 3rd ed., is accompanied by a workbook and audio tapes that are designed to be studied outside class. The readings in the text have been taken from Spanish language newspapers and magazines. Grammar is covered in the homework assignments and reinforced in class with a variety of paired and small group activities. 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% mid exam, 20% final exam, 15% quizzes, 10% class participation, 35% 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); 1001 completed at UMNTC, dept consent Credit will not be granted if credit has been received for: SPAN 4022;
Instructor: Viedma, Pablo
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 for the student who has completed Spanish 1001 at the University of Minnesota. Listening, speaking, reading, writing. Emphasizes development of communicative competence. Cultural readings.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person exams

Span 1003 Intermediate Spanish
5 credit(s); [1002 or 1022] or EPT placement Credit will not be granted if credit has been received for: MADR 1003;
Instructor: STAFF
Description: This course is for those who have completed Spanish 1022 or 1002 with C- or better, or who have taken two or more years of Spanish in high school and have successfully passed the Entrance Proficiency Test (EPT) for this level. ***Sections [001 thru 012] normally meet in-person/on campus on Monday, Tuesday, Wednesday, and Thursday. In addition, there are a limited number of days (announced at the beginning of the semester) in which students are required to complete synchronous class work online during class time and/or attend class in person for exams and special assignments on Fridays. These sections include a significant amount of online work. *** In this course, students build on the communicative speaking, writing, listening and reading skills that were acquired in beginning Spanish. 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 the textbook, 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 the textbook or in class. Because Spanish class is about the only place where a student can practice listening and speaking, class attendance is critical. Partially Online Sections: The instruction and content are delivered by a combination of in class face-to-face meetings and a wide range of independent and collaborative online activities with short (frequent) due dates. Face to face meeting typically occur on Monday, Wednesday and Thursday. Some weeks require attendance on Tuesday and Friday. Do not schedule work and/or another class for those days. For more information contact: F. Matos-Schultz, or A. Carlson-Lombardi NOTE: All sections include homework in an online workbook with specific due dates
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 1003 Intermediate Spanish
5 credit(s); [1002 or 1022] or EPT placement Credit will not be granted if credit has been received for: MADR 1003;
Instructor: Carlson Lombardi, Angela
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 for those who have completed Spanish 1022 or 1002 with C- or better, or who have taken two or more years of Spanish in high school and have successfully passed the Entrance Proficiency Test (EPT) for this level. Speaking/comprehension. Developing reading/writing skills based on materials from Spain/Spanish America. Grammar review. Compositions, oral presentations.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person exams

Span 1003 Intermediate Spanish
5 credit(s); [1002 or 1022] or EPT placement Credit will not be granted if credit has been received for: MADR 1003;
Instructor: Conrad, Craig
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 for those who have completed Spanish 1022 or 1002 with C- or better, or who have taken two or more years of Spanish in high school and have successfully passed the Entrance Proficiency Test (EPT) for this level. Speaking/comprehension. Developing reading/writing skills based on materials from Spain/Spanish America. Grammar review. Compositions, oral presentations.
Style: Online
Grading: 4% class participation. See attached syllabus
Exam Format: Supervised, in-person exams

**Span 1003 Intermediate Spanish**
5 credit(s); [1002 or 1022] or EPT placement
Credit will not be granted if credit has been received for: MADR 1003;
Instructor: Wiesinger, Andrew David
Description: Student may contact the instructor or department for information.

**Span 1004 Intermediate Spanish**
5 credit(s); 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. **Sections 001-016 normally meet in-person/on campus on Monday, Tuesday, Wednesday, and Thursday. In addition, there are a limited number of days (announced at the beginning of the semester) in which students are required to complete synchronous class work online during class time and/or attend class in person for exams and special assignments on Fridays. These sections include a significant amount of online work. 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 BIS degree program in the CLA must take the Language Proficiency Exam (LPE) as a requirement of the course, unless they have already passed the LPE 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); 1003 or EPT placement
Credit will not be granted if credit has been received for: SPAN 1014;
Instructor: Mack PhD, Sara
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Speaking/comprehension. Developing reading/writing skills based on materials from Spain/Spanish America. Grammar review. Compositions, oral presentations.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person exams

**Span 1004 Intermediate Spanish**
5 credit(s); 1003 or EPT placement
Credit will not be granted if credit has been received for: SPAN 1014;
Instructor: Castro, Cristina Isabel
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Speaking/comprehension. Developing reading/writing skills based on materials from Spain/Spanish America. Grammar review. Compositions, oral presentations.
Style: Online
Grading: See attached syllabus
Exam Format: Supervised, in-person exams

**Span 1004 Intermediate Spanish**
5 credit(s); 1003 or EPT placement
Credit will not be granted if credit has been received for: SPAN 1014;
Instructor: Sanchez-Vargas, Adriana Ximena
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Speaking/comprehension. Developing reading/writing skills based on materials from Spain/Spanish America. Grammar review. Compositions, oral presentations.
Style: Online with handwritten exams and Language Proficiency Exams
Grading: 4% class participation. See attached syllabus
Exam Format: Supervised, in-person exams.
Span 1014 Business Spanish
5 credit(s); 1003Credit will not be granted if credit has been received for: SPAN 1004;
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. 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, but with a focus on business vocabulary, report writing skills, proper format for business communications and conversational fluency on trade-related topics. 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. Because Spanish class is about the only place where you can practice listening and speaking, class attendance is critical.

Span 1022 Alternate Second-Semester Spanish
5 credit(s); Placement above 1001Credit 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 delivered by a combination of in class meetings and a wide range of online activities. The different online components were designed to help you become a more successful language learner by giving you the opportunity to explore different learning modes independently and to provide more exposure to the Spanish language. You will have the opportunity to experience different accents and regional variations, not just your instructor's, as well as a wealth of other authentic materials that would not be readily accessible in a regular classroom. For that reason the course requires a considerable amount of independent work to be completed online outside of the classroom contact hours. The regular class typically meets four days a week and the Technology-enhanced sections typically meet three days a week. All sections meet every day the first week of instruction NOTE: Students are not to schedule other classes or work on the days that the classes do not meet because some weeks classes will meet all five days and the instructors expect those 50-minute sections to be available for Spanish on short notice. The web activities are to be done outside of the classroom.
Style: 5% Lecture, 10% Discussion, 10% Laboratory. group work, reading and related activities
Grading: 20% final exam, 10% class participation, 10% laboratory evaluation, 25% other evaluation. unit exams,15% oral interview type evaluations, 10% written compositions and journals, 10% listening and workbook exercises
Exam Format: All quizzes and tests evaluate listening, reading, vocabulary, grammar & writing. A minimum of multiple choice & true-false items; encourage the use of natural language by using short answers and essays. Two oral interviews.

Span 1044 Intermediate Medical Spanish
5 credit(s); 1003 or equivCredit 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 in common medical situations, vocabulary and phrases to conduct patient interviews and medical history, vocabulary and conversation to conduct physical exams; understanding the Latin American view of health and health care. In terms of the grammatical aspects, the course covers same areas as Spanish 1004; therefore, students planning on taking Spanish 3015 will be prepared to do so. Besides in class activities, and for a better understanding of cultural aspects, students will perform individual work on WebCT and CD-ROM which concentrate on watching and listening, reading and writing about interviews of health care providers who work with Spanish speaking community, and interactions in the target language between doctors and patients. * Evaluation standards: Students will be evaluated on class participation, discussion of course content, exploration of cultural component, therefore class attendance is critical. Evaluation of communicative speaking, writing, listening and reading is done through exams, composition writing and presentation. Application of Learning Technologies: each week online discussion of questions based on readings. The discussion requires thought about how a theme is related to aspects of interaction with the Chicano/Latino population.
Style: 10% Lecture, 60% Discussion. language lab, listening, writing testing for comprehension and vocabulary and peer editing
Grading: 15% reports/papers, 50% quizzes, 10% in-class presentation, 15% class participation, 10% other evaluation. round table discussion
Exam Format: Exams evaluate listening, reading, vocabulary & grammar, writing & culture. A minimum of multiple choice and true/false items; encourage use of natural language by using short answers, short /long reports

Span 1522 Spanish II
A-F only, 3 credit(s);
Instructor: Henderson Vazquez, Teresa A
Description: Student may contact the instructor or department for information.

Span 1522 Spanish II
A-F only, 3 credit(s);
Instructor: Punti, Gemma
Span 2521 Spanish III
A-F only, 3 credit(s);
Instructor: Furness,Ryan C
Description: Student may contact the instructor or department for information.

Span 2524 Spanish IV
A-F only, 3 credit(s);
Instructor: Furness,Ryan C
Description: Student may contact the instructor or department for information.

Span 3011 Spanish Communication Skills
4 credit(s);
Instructor: STAFF
Description: This class is designed to further develop and strengthen language skills by integrating 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 exercises, paired work, small group work, all-class discussions, peer editing, and process writing -- to provide students with the appropriate opportunities to enhance their language skills as they learn academic content through the active use of the Spanish language. This course requires a major time commitment on the part of each student registered.
Style: 25% Lecture, 50% Discussion. 15% peer editing, 10% preparing and presenting projects
Grading: 20% mid exam, 20% quizzes, 10% in-class presentation, 10% class participation. 15% compositions and portfolio, 10% paper, 10% reader's journal, 25% final paper
Exam Format: Essays and short answers written in Spanish, together with grammar sections.

Span 3015 Spanish Composition and Communication
4 credit(s);
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 Span 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 separating 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, 30% compositions and portfolio, 20% examinations, 10% reader's journal, 10% round-table discussion, 10% final research paper
Exam Format: Essays and short answers written in Spanish, together with grammar sections.

Span 3022 Advanced Business Spanish
4 credit(s);3015 credit will not be granted if credit received for: Tldo 3022, 3023Credit will not be granted if credit has been received for: TLDO 3023;
Instructor: Hoffman-Gonzalez,Anne C
Description: Student may contact the instructor or department for information.

Span 3044 Advanced Medical Spanish
4 credit(s);
Instructor: Lopez,Maria Emilce
Description: This course is designed to further develop and strengthen the linguistic skills and cultural awareness students have been exposed to and acquired in Intermediate Medical Spanish 1044 (Span1044). This higher language and culture level course, is designed to train health care professionals and/or Spanish Studies majors/ minors to communicate more effectively in linguistic and cultural terms with Spanish speaking patients. Students will explore more advanced and specific medical vocabulary, communication strategies and related cultural aspects. The goal is targeted to: improve conducting
patient interviews and medical history, using vocabulary and conversation to conduct physical exams; and to better understand Latin American views on health and health care. The course applies a variety of communicative tasks to address learning skills, uses technology, and promotes discussion. Students are to read course related articles and perform assignments on Web-CT about CD-ROM segments outside of class. Web-CT activities focus on vocabulary, listening, reading, writing, and discussion. CD-ROM features videotaped interviews of a significant number of health care providers who work with the Spanish speaking immigrant community and the unique opportunity to get perspectives on health related issues from Chicano/Latino immigrants in the Twin Cities. These exercises are intended to expose different captured views on health and health care, promote cultural awareness and cultural sensitivity.

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


Span 3104W Introduction to the Study of Hispanic Literatures
A-F only, 3 credit(s);3015, Spanish [major or minor] or Span-Port major
Credit will not be granted if credit has been received for: TLDO 3104W; Meets CLE req of Literature; 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);3015, Spanish [major or minor] or Span-Port
Credit will not be granted if credit has been received for: TLDO 3105W; 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);3015, Spanish [major or minor] or Span-Port major
Credit will not be granted if credit has been received for: TLDO 3107W; 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);
Instructor: STAFF
Description: Al margen de su calidad intrínseca probada, la poesía española posee una cohesión, una sujeción y enzarzamiento tales que su continuidad, su tradicionalismo, es uno de los rasgos que mejor la singulariza en el quehacer lírico ecuménico. Lo decisivo aquí es que lo nuevo y lo prestado de afuera se combina y funde con lo tradicional para convertirse en una hechura genuinamente española. De esta forma se explica el por qué el Cancionero y el Romancero anónimos de los siglos XII-XVI aun perviven en Juan Ramón Jiménez y Federico García Lorca, poetas de nuestro siglo. Ocurre algo identico, salvando las distancias de las épocas, cuando el siglo y medio de la “Edad de Oro” (desde Jorge Manrique a Francisco Quevedo) encuentra eco cercano en los poetas de las generaciones de los años ochenta y noventas: con su agudeza de ser, su métrica y su carácter nacional hispano. Tampoco habremos de olvidar que la Vieja España—aferrada a ese tradicionalismo castizo que ha venido retrasando, desde el XVIII, el racionalismo afrancesado neoclásico, el Romanticismo del XIX (Becquer y Espronceda), el Modernismo americano de fin de siglo, etc.—se ha batido en los últimos dos si-glos para mantener viva aquella “idiosincracia española” obsesionada con el aislamiento y el exilio.
Grading: 20% final exam, 15% in-class presentation, 15% class participation. Ensayo # 1/# 2, 15% @; Examen I, 20%

Span 3222 Discourses of Modern and Contemporary Latin America
3 credit(s);3015, [3104W or TLDO 3104 or VENZ 3104 or instr consent ]
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.

Span 3401 Latino Immigration and Community Service
A-F only, 3 credit(s); Meets CLE req of Civic Life and Ethics
Instructor: STAFF
Description: Span 3401 meets the CLE requirements for Citizenship and Public Ethics and that for Diversity. This is a service-learning course in which students work directly with Latino immigrants. In class, the student will analyze U.S. power structures around Latino emigration and issues confronting societies with a rapid demographic change such as has been the case with Latino immigration. Topics covered include: the relationship between the global economic system and emigration from Latin America, human rights issues along the U.S./Mexican border, federal immigration reform, language issues, and Latino contributions to U.S. culture and economy. Students reflect on the societal and individual responsibility to create more inclusive and just political, economic, and educational systems within this country. Students will be challenged to analyze systems of social power and privilege in each of these topics by studying multiple perspectives, reflecting on their personal roles and, most importantly, by hearing the voices of Latino immigrants. Students will be expected to be active participants in dialogues with classmates and community members and have multiple opportunities to develop and express their opinions in a challenging and respectful environment. Students will be expected to connect what they are learning to their own lives and to the world around them. Students will become actively engaged in analyzing Citizenship, Public Ethics and Diversity issues through: * 1 class per week (2.5 hrs) * 33 hours of community service working with Latino immigrants, speaking mostly Spanish * Community visits with Latino leaders in education, advocacy work, and politics Objectives of this class are to create cross-cultural relationships, practice Spanish language skills, develop the ability to analyze social justice issues, and give students the tools to actively engage in participatory democracy throughout their lives.

Span 3404 Medical Spanish and Community Health Service
3 credit(s);
Instructor: STAFF
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);
Instructor: Calvo, Maria Antonia
Description: In this class we will study the social and political transformation that occurred in Spain after the country finished 40 years of dictatorship under the General Francisco Franco. Taking Spain as the case study, this course will address the differences between totalitarian systems and democracies. We will also focus on the rules that guide the transition from one political system to another and the consequences that these transitional processes have on the emerging democracy. Students will be introduced to the organizational bases of contemporary Spanish democracy and through the case of Spain the course will tackle important debates in place today in democratic societies. The class will be structured around a weekly topic and the material will be covered through lecture and class debate. Each week the professor will introduce the topic followed by class discussion of the assigned readings. Five specific questions will be identified for every topic to organize the class discussions and the subsequent writing assignments. Students will be required to work individually and in groups and use a variety of media. Student evaluation will be based on weekly assignments, four quizzes and a final exam. The grade will be determined by: class participation, assignments and presentations 40%; four quizzes 40%; final exam 20%.
Grading: Student evaluation will be based on weekly assignments, four quizzes and a final exam. The grade will be determined by: class participation, assignments and presentations 40%; four quizzes 40%; final exam 20%.

Span 3510 Issues in Hispanic Cultures: Global Spanish Imperialism in the 16th-Century
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Marrero-Fente, Raul A
Description: SPRING 2014 with Prof. Raul Marrero-Fente, TOPIC: Global Spanish Imperialism in the 16th-century, COURSE DESCRIPTION: Through an interdisciplinary approach, this course aims to provide a new interpretation of Spanish imperialism during the 16th-century. The course, will examine the legacies of imperialist discourse as producer of the epistemic colonial difference. Furthermore, this course not only identifies the global nature of Spanish imperialism, but also analyses the indigenous accounts of resistance to the conquest and colonization. By focusing on the cultural production and practices of Spanish imperialism in Africa, the Americas, and Asia, the course argue that Colonial Latin American cannot be understood in isolation from other geographical regions, and from the transatlantic and global exchange from which it emerged. In other words, the cultural, economic, legal, political, and social interaction that occurred between the colonial territories was crucial in shaping the Spanish empire in the early modern world. The course provides training in analytical thinking and cultural critique of imperialism and colonialism, bringing a global perspective to our curriculum. The course will focus on critical readings and discussion of cultural artifacts, maps, texts and documents of
Africa, Asia, the Americas, and Spain. Studies will include material pertaining to the aural and visual production of the period, including European accounts of the conquest, and indigenous accounts of resistance to the conquest. Primary reading materials are in Spanish and critical readings are in English, and Spanish.

**Span 3510 Issues in Hispanic Cultures: (Re)definitions of Span Identity/20-21 Centuries**
- A-F only, 3 credit(s), max credits 9, 3 completions allowed;
- **Instructor:** Rivera,Marianela
- **Description:** SPRING 2014: TOPIC: (Re)definitions of Spanish Identity During 20th-21st Centuries with Prof. Marianela Rivera. DESCRIPTION: This course explores the concept of Spanish "national identity" and the way its definition has been directly affected by political, social, and cultural events since the beginning of the twentieth century. Attention will be placed on the on-going process of (re)defining "lo espanol" and the influence of specific national and international historic events that had a deep effect on Spanish society and culture.

**Span 3512 Modern Latin America**
- A-F only, 3 credit(s);
- **Instructor:** Ramos-Garcia,Luis A
- **Description:** Student may contact the instructor or department for information.

**Span 3612 Don Quijote and the Novel**
- 3 credit(s); Meets CLE req of Literature
- **Instructor:** Spadaccini,Nicholas
- **Description:** Cervantes’s Don Quijote (1605; 1615) will be analyzed and discussed in light of literary, historical, philosophical, and social-cultural issues. Specific areas of discussion include Don Quijote and the poetics of the novel; its transgression of the limits of traditional prose-fiction genres (chivalric, pastoral, picaresque, etc.); its dialogue with the conservative culture of Counterreformation Spain; and present-day debates between critics who adhere to traditional humanist and/or historicist readings and those whose work is informed by avant-garde, post-structuralist theory. Our general approach should also facilitate a discussion of the function of other types of discourses within the novel's frame. For example, one might argue that the purging of Don Quijote's library (I, 6) recalls the ritual discourse of the Inquisition; that Sancho’s use of proverbs captures the weight of oral culture at a time when the majority of the population could neither read nor write; that the reactions of various characters to the oral reading of romances of chivalry allow us to speculate on matters of authority and authorial intentions as each listener brings to the reception his/her own preoccupations and tastes. We shall also examine the strategy behind the novel’s inclusion of elements of both official and unofficial culture, and consider how Don Quijote manages to engage in popular practices.
- **Style:** 60% Lecture, 30% Discussion. (Oral presentation? personal reflection on DON QUIJOTE)
- **Grading:** 30% mid exam, 40% final exam, 10% reports/papers, 10% in-class presentation, 10% class participation.
- **Exam Format:** Essays (analysis/discussion of key issues introduced in the course); Note: final exam is a take-home exam consisting of three questions to be distributed three weeks prior to the end of the semester.

**Span 3702 Structure of Spanish: Morphology and Syntax**
- 3 credit(s);3015, [3107W or TLDO 3107 or VENZ 3107 or instr consent ]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 syntactic 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 3730 Topics in Hispanic Linguistics: Constrastive Structures of Spanish and English**
- A-F only, 3 credit(s), max credits 9, 3 completions allowed;
- **Instructor:** Face,Timothy L
- **Description:** SPRING 2014 with Prof. Face. TOPIC: Contrastive Structures of Spanish and English. DESCRIPTION: In this course we will examine similarities and differences in the linguistic systems of Spanish and English, including phonology, morphology and syntax, focusing especially on areas in which the two languages differ. Comparing and contrasting the structures of the two languages will provide a different perspective on the challenges that speakers of one of these languages have when learning the other. Students will reflect on their experiences as a second language learner as well as consider how to help others struggling with the grammatical issues considered in this course.

**Span 3800 Film Studies in Spanish: North African Immigration in Spanish Film**
- A-F only, 3 credit(s), max credits 9, 3 completions allowed;
- **Instructor:** Rivera,Marianela
Description: SPRING 2014 with Prof. Marianela Rivera. TOPIC: North African Immigration in Spanish Film.
DESCRIPTION: This course examines the representation of North African immigration in Peninsular Spanish film and the role of Spanish cinema in the portrayal of racial, ethnic, cultural, and social aspects that are part of the North Africans' integration and assimilation process upon their arrival to Spain.

Span 3910 Topics in Spanish Peninsular Literature: Baroque Lit/Theater/Art-Spain/Lat Am
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
Instructor: Spadaccini, Nicholas
Description: SPRING 2014 with Prof. Spadaccini Topic: Containment and/or Freedom: Baroque Literature, Theater, and Art (Spain and Colonial Latin America): Between Containment and Freedom This course examines certain aspects of Baroque Literature, Theater, and Art in Early Modern Spain and Colonial Latin America, especially the manner in which they may be seen as reaffirming and/or contesting tradition and orthodoxies. We shall analyze and discuss texts from a variety of genres (poems, plays, aphorisms, novellas, and letters) by Cervantes, Calderon, Gongora, Gracian, Maria de Zayas, Espinosa Medrano [Lunarejo] and Sor Juana Ines de la Cruz, and shall also discuss Spanish and Latin American art and architecture, especially Diego Velazquez? "Las Meninas"; the art of ?el indio? Jose Condori; and the work Brazilian mulatto architect Aleijandrinho. As we consider questions of containment and freedom-- or major and minor (deconstructive) strategies-- in approaching baroque literature, theater, and art, we will also keep in mind that some of the texts in questions highlight formal experimentation and, through it, the representation of a world marked by the hybrid, the impure, or the disjointive. Evaluation of the course will be effected through class discussion, written exams in the form of essays, and participation in end-of-semester colloquia. The students? knowledge and critical thinking skills will be tested through several methods, including, a series of four short essays: one written as a take-home, mid-semester examination; a second prepared for presentation at the end-of-semester colloquia; and two other short essays written as a take-home final examination. Ongoing assessment of student participation in class discussion, evaluation of student essays, and performance at end-of-semester colloquia are meant to measure critical thinking skills and absorption of materials related to the course.
Grading: 30% mid exam, 40% final exam, 15% in-class presentation, 15% class participation. 30%-A mid-semester take-home examination ( two essays ) 40%-A take-home final examination (two essays ) --Each essay should be five pages in length (double-spaced) --Questions for exams provided approximately two weeks prior to due date
Exam Format: Essays

Span 3920 Topics in Spanish-American Literature: Memory & Amnesia in Latin Amer Literary Discourses
A-F only, 3 credit(s), max credits 9, 3 completions allowed;3015, [3104W or TLDO 3104 or VENZ 3104 or instr consent ]Credit will not be granted if credit has been received for: SPAN 3920H;
Instructor: Ramos-Garcia,Luis A
Description: SPRING 2014 with Prof. Ramos-Garcia TOPIC: MEMORY & AMNESIA IN LATIN AMERICAN LITERARY DISCOURSES DESCRIPTION: Whereas Latin American governments have been prone to create a ?forget and forgive policies? ?a sort of an ?official amnesia?-- for the past decades, intellectual, artistic, political and grass-roots organizations have generated a whole range of techniques and projects in order to explore the effects of social fragmentation and political terrorism creating a collective's philosophy that encourages the writing of powerful war/postwar-related literary discourses, testimonies and memory plays. For these communities, the power of memory and the past are not something that must remain silenced or superseded by the present and/or the future, as if each temporal phase would exist independently along an inexorable continuum. As oral and written memory of the past provides the roots of a culture's collective identity --an identity that has been forged by frequent violent encounters between indigenous, colonial, national, immigrant, and multinational imaginaries-- this ?memory-in-action? course will serve to mark not only cultural gaps and transitions but to explore forged amnesic cultural discourses in order to contribute to a long-term goal of establishing a shared and functional national historical narrative. This course will offer an introduction to contemporary literary and political discourses in Latin America, focusing specifically on fiction, testimonial and drama genres. Beginning with representative selections from XX-XXI century literary movements, students will examine the evolution of a cultural discourse that explores national identity, human rights discourses, historical/cultural amnesia, and the recovery of historical and mythical memories. The readings will be studied and discussed in Spanish and in their literary, cultural and political contexts. Supplementary readings (all in Spanish) will be suggested or provided when appropriate. The evaluation of students will comprise instructional strategies that represent current trends for assessing student outcomes such as take-home exams, oral presentations, performance attendance, and cooperative learning projects.
Grading: Grading system: A/F: A= 90 or more; B= 80-89; C= 70-79 S= C (70-79) or more D= 60-69; N= D (69-00) F= 59 or less S/N:

Span 3972W Graduation Seminar
A-F only, 3 credit(s);31 cr of 3xxx, instr consent Credit will not be granted if credit has been received for: SPAN 3972V/Meets CLE req of Writing Intensive
Instructor: Hanneken,Jaime Elizabeth
Description: Student may contact the instructor or department for information.

Span 3972W Graduation Seminar
Span 4002 Beginning Spanish
2 credit(s); Grad student
Credit will not be granted if credit has been received for: SPAN 1022;
Instructor: Hernandez, Stephanie Leah
Description: Student may contact the instructor or department for information.

Span 4003 Intermediate Spanish
2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Span 4004 Intermediate Spanish
2 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Span 4014 Business Spanish
2 credit(s); Credit will not be granted if credit has been received for: SPAN 1004;
Instructor: Hoffman-Gonzalez, Anne C
Description: Student may contact the instructor or department for information.

Span 4022 Alternate Second-Semester Spanish
2 credit(s); Grad student
Credit will not be granted if credit has been received for: SPAN 1002;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Span 5527 Nineteenth Century Latin America: Enlightened Thought, Nation Building, Literacy, Cultural Discourse
3 credit(s);
Instructor: Forcinito, Ana
Description: En este curso discutiremos la literatura del siglo XIX en Hispanoamerica y su relacion con los proyectos e identidades nacionales. Consideraremos, por lo tanto, el aspecto escriturario de los procesos de fundacion y consolidacion de los estados nacionales, deteniendones, en especial, en el analisis de las estrategias discursivas usadas en los textos. Discutiremos los procesos de adopcion de los modelos liberales fundacionales, el pensamiento positivista, el enfasis en el progreso y en la modernizacion de las naciones en estrecha relacion con las esteticas que, como el romanticismo, realismo y naturalismo, acompanaron la escritura y la narracion sobre la/s patria/s. Algunos de los autores a discutir son: Simon Bolivar, Andres Bello, Esteban Echeverria, Domingo Faustino Sarmiento. Jorge Isaacs, Clorinda Matto de Turner y Jose Hernandez.

Span 5721 Spanish Laboratory Phonology
A-F only, 3 credit(s);
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 5970 Directed Readings
Span 5985 Sociolinguistic Perspectives on Spanish in the United States
3 credit(s);
Instructor: Klee, Carol Anne
Description: Spanish has had a presence in the North American territory that today constitutes the United States since the sixteenth century and its use has expanded extraordinarily since that time, particularly over the past fifty years. In Span 5985 we will examine issues such as the following in the diverse Spanish-speaking communities across the U.S.: the social, economic, and attitudinal factors that affect language maintenance and language shift in different Spanish-speaking communities; code-switching (i.e., the alternate use of Spanish and English), when it occurs and why, and what it reveals about the speakers' underlying competence in both languages; Spanglish, what it is, who uses it and in what circumstances; attitudes of Spanish-speakers towards Spanish, English and Spanglish; how Mexican, Central American, and Caribbean varieties of Spanish have changed in bilingual communities; language policy issues, such as bilingual education and the English Only movement. The texts for the course include Rosaura Sanchez's Chicano Discourse: Socio-historical Perspectives, Carmen Silva-Corvalan's Language Contact and Change: Spanish in Los Angeles, and Ana Celia Zentella's Growing up Bilingual: Puerto Rican Children in New York, as well as selected articles.

Style: 30% Lecture, 30% Discussion, 30% Small Group Activities, 10% Student Presentation.
Grading: 30% mid exam, 30% final exam, 25% reports/papers, 5% class participation.
Exam Format: Essay

Span 8900 Spanish Seminar: Iberian Studies: A Theory of Practice
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Viestenz, William R
Description: SPRING 2014 with Prof. Bill Viestenz, TOPIC: "Iberian Studies: A Theory of Practice." DESCRIPTION: This seminar explores the recent emergence of Iberian Studies and the scope of the field's methodological and ethical critique of traditional Hispanism. The course will attempt to place Iberia's aesthetic traditions into a dialectical matrix and thus destabilize the paradigms normally used to codify the meanings attached to each canon's representative texts.

Speech-Language-Hearing Sciences 115 Shevlin Hall
SLHS 1301V Physics & Bio Honors
A-F only, 4 credit(s); Meets CLE req of Physical Sciences; meets CLE req of Writing Intensive
Instructor: STAFF
Description: Introduction to the physics and biology of spoken language; the talker's production of sounds and words; transmission of sound; the listener's perception of what was heard; and computer analysis and synthesis of speech. Lectures will be supported by computer animations that show, in slow motion, rapidly changing dynamic events in acoustics, by on-line computer analysis of speech, and by laboratory sessions. Objectives: 1) Provide students who have a limited physics and biology background with an introduction to the physics and biology of spoken language, a field that is not only interesting, but of considerable social importance because of the dominant role that speech, language, and hearing play in society; and 2) Introduce students to recent technological advances associated with spoken language such as digital signal processing systems and speech recognition techniques. The trek through history will begin with Kratzenstein, who designed the first speech synthesizer in 1179, and end with an examination of the ways in which current research from disciplines such as physics, biology, psychology, linguistics, speech and hearing science, and so forth contributes to our understanding of the physics and biology of spoken language.
Style: 60% Lecture, 40% Discussion.
Grading: 50% mid exam, 25% final exam, 25% laboratory evaluation.
Exam Format: multiple choice

SLHS 1301W The Physics and Biology of Spoken Language
4 credit(s); Meets CLE req of Physical Sciences; 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

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**SLHS 1301W The Physics and Biology of Spoken Language**

3 credit(s); Meets CLE req of Physical Sciences; meets CLE req of Writing Intensive

**Instructor:** STAFF

**Description:** This 3-credit introductory course covers a wide range of interesting topics on spoken language and human communication with no prerequisites. These topics include historical perspectives and current research on speech production, animal communication systems, speech and musical acoustics, speech perception, speech development, cross-language comparisons, techniques used in speech analysis, machine recognition of speech, brain processing of speech information, brain imaging techniques, speech evolution, and implications for language-impaired populations. The trek through the history of speech technology will begin with Kratzenstein, who designed the first speech synthesizer in 1179, and end with an examination of the ways in which current research from disciplines such as physics, biology, psychology, linguistics, speech and hearing science, and so forth contributes to our understanding of the physics and biology of spoken language. Lectures will be supported by computer animations and online videos that show, in slow motion, rapidly changing dynamic events in the articulatory system, the auditory system, and the brain. Hands-on laboratory sessions are led by experienced teaching assistants in the graduate program of the speech-language-hearing sciences. Most course materials, including answers to study guides and practice tests are available online through the WebVista system of the university. After completing this course, students should be able to 1) Analyze and identify basic acoustic features of speech, music, or other sounds. 2) Demonstrate knowledge about the relationship between the physical speech signal, the physiological activities that make the sound (production), and the psychological response to the signal (perception). 3) Demonstrate understanding of the complex nature of speech and language. 4) Show that they understand the basics of the development of speech and language, modern speech technology, and modern techniques of studying human information processing. 5) Work together as a team for lab projects and learn through empirical work.

**Course features:** - Meets CLE req of Physical Science/Lab Core - Meets CLE req of Writing Intensive - No prerequisite required - Offered in Fall and Spring semesters

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

**Exam Format:** Multiple choice

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**SLHS 1302 Rate Your World: Quantifying Judgments of Human Behavior**

3 credit(s); Meets CLE req of Mathematical Thinking

**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.

**Grading:** 25% mid exam, 25% final exam, 50% reports/papers.

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**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 Social Sciences

**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.

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**SLHS 1402 The Talking Brain**

3 credit(s); Meets CLE req of Social Sciences

**Instructor:** STAFF
Description: his ENTRY-LEVEL course deals with a quintessential aspect of human nature - how the brain supports language. Topics include (a) basic knowledge on anatomy and physiology of neural network involved in producing and understanding speech and language, (b) basic knowledge on the acoustic features of spoken language and sound patterns of language, (c) basic knowledge on the structure of language and language acquisition, (d) modern brain research techniques and the hot topics in cognitive neuroscience of language and music, (e) Research findings from normal populations (the developing brain, mature brain, aging brain, bilingual brain) and clinical populations (aphasia, amusia, dyslexia, central auditory processing disorder, autism spectrum disorder, language-specific impairment). Theoretical importance, empirical limitation, and societal impacts of the research findings will be discussed. Sample syllabus is available at: http://zhanglab.wikidot.com/teaching

Style: 60% Lecture, 5% Film/Video, 10% Discussion, 10% Laboratory, 5% Small Group Activities, 10% Demonstration.

Grading: 25% mid exam, 25% final exam, 30% reports/papers, 10% quizzes, 10% class participation.

SLHS 3303 Language Acquisition and Science
3 credit(s);
Instructor: Finestack, Lizbeth Haller
Description: Student may contact the instructor or department for information.

SLHS 3304 Phonetics
3 credit(s); Credit will not be granted if credit has been received for: SLHS 5304;
Instructor: Gerlach, Sharon Ruth
Description: Student may contact the instructor or department for information.

SLHS 3306 Hearing Science
3 credit(s);
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 Social Sciences
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 3402V Major Project in Speech-Language-Hearing Sciences
A-F only, 3 credit(s), max credits 6; Meets CLE req of Writing Intensive
Instructor: Kennedy, Mary R T
Description: Student may contact the instructor or department for information.

SLHS 3402W Major Project in Speech and Hearing Science
S-N only, 3 credit(s); Meets CLE req of Writing Intensive
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;
Instructor: Carney, Arlene Earley
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
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;
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;
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;
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;
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;
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;
Instructor: Watson, Peter J
Description: Student may contact the instructor or department for information.

SLHS 3555H Honors Thesis
A-F only, 1-2 credit(s), max credits 2, 1 completion allowed;
Instructor: Zhang, Yang
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;
Instructor: Stronach, Sheri Tracy
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
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;
Instructor: Angeman, Sarah Kay
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
Instructor: Deruitler, Mark
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
Instructor: Finestack, Lizbeth Haller
Description: Student may contact the instructor or department for information.
SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
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;
Instructor: Windsor, Jennifer
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
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;
Instructor: Kennedy, Mary R T
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
Instructor: Nelson, Peggy B
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
Instructor: Munson, Benjamin
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
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;
Instructor: Zhang, Yang
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
Instructor: Rao, Aparna
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
Instructor: Sasisekaran, Jayanthi
Description: Student may contact the instructor or department for information.

SLHS 3994 Directed Research
1-12 credit(s), max credits 24;
Instructor: Stronach, Sheri Tracy
Description: Student may contact the instructor or department for information.

SLHS 4802 Rehabilitative Audiology
3 credit(s);
Instructor: Miller, Sharon E
Description: Student may contact the instructor or department for information.
SLHS 5502 Voice and Cleft Palate
3 credit(s);
Instructor: Watson, Peter J
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

SLHS 5605 Language and Cognitive Disorders in Adults
3 credit(s);
Instructor: Kennedy, Mary R T
Description: Student may contact the instructor or department for information.

SLHS 5606 Introduction to Augmentative and Alternative Communication
3 credit(s);
Instructor: Hyppa Martin, Jolene K
Description: Student may contact the instructor or department for information.

SLHS 5608 Clinical Issues in Bilingualism and Cultural Diversity
A-F only, 3 credit(s);
Instructor: Stronach, Sheri Tracy
Description: Student may contact the instructor or department for information.

SLHS 5805 Advanced Rehabilitative Audiology
A-F only, 3 credit(s);
Instructor: Rao, Aparna
Description: Student may contact the instructor or department for information.

SLHS 5810 Laboratory Module in Audiology
1-2 credit(s), max credits 5, 5 completions allowed;
Instructor: Rao, Aparna
Description: Student may contact the instructor or department for information.

SLHS 5820 Clinical Research and Practice: Grand Rounds
S-N only, 1-6 credit(s), max credits 6, 6 completions allowed;
Instructor: Schlauch, Robert S
Description: Student may contact the instructor or department for information.

SLHS 5830 Clinical Foundations in Audiology
S-N only, 1-8 credit(s), max credits 24, 24 completions allowed;
Instructor: Rao, Aparna
Description: Student may contact the instructor or department for information.

SLHS 5900 Topic in Speech-Language-Hearing Sciences
1-4 credit(s), max credits 8;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

SLHS 5993 Directed Study
1-12 credit(s), max credits 18, 18 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.
SLHS 8430 Proseminar in Speech-Language-Hearing Sciences  
S-N only, 1 credit(s), max credits 10, 10 completions allowed;  
Instructor: Nelson, Peggy B  
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;  
Instructor: Deruiter, Mark  
Description: Student may contact the instructor or department for information.

SLHS 8801 Audiologic Assessment II  
3 credit(s);  
Instructor: Schlauch, Robert S  
Description: Student may contact the instructor or department for information.

SLHS 8802 Hearing Aids II  
3 credit(s);  
Instructor: Gregan, Melanie J  
Description: Student may contact the instructor or department for information.

SLHS 8807 Audiologic Assessment III: Balance  
3 credit(s);  
Instructor: Angerman, Sarah Kay  
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;  
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;  
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;  
Instructor: Carney, Arlene Earley  
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research  
1-12 credit(s), max credits 18, 18 completions allowed;  
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;  
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;  
Instructor: Finestack, Lizbeth Haller  
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research  
1-12 credit(s), max credits 18, 18 completions allowed;  
Instructor: Schlauch, Robert S  
Description: Student may contact the instructor or department for information.
SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed;
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;
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;
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;
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;
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;
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;
Instructor: Zhang,Yang
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed;
Instructor: Sasisekaran,Jayanthi
Description: Student may contact the instructor or department for information.

SLHS 8994 Directed Research
1-12 credit(s), max credits 18, 18 completions allowed;
Instructor: Stronach,Sheri Tracy
Description: Student may contact the instructor or department for information.

Sport Management 220 Cooke Hall

SMgt 1701 Introduction to Sport Management
A-F only, 2 credit(s);
Instructor: Richardson PhD,Tiffany
Description: Scope/motive of the study of sport from sociological, psychological, historical, economic, and scientific perspective. Issues in sport.

SMgt 1904 Freshman Seminar: Global Perspectives: Sport Culture in Italy
3 credit(s);Meets CLE req of Global Perspectives
Instructor: Buysse PhD,Jo Ann
Description: Student may contact the instructor or department for information.

SMgt 3111 Sports Facility and Event Management
SMgt 3143 Organization and Management of Sport
A-F only, 3 credit(s);
Instructor: STAFF
Description: Aspects of managing sport facilities/events. Conceptualization of sports events. Event management planning process, budgeting, site selection, booking, ticketing, sponsorship.

SMgt 3421 Business of Sport
A-F only, 3 credit(s);
Instructor: Maturi, Joel
Description: Student may contact the instructor or department for information.

SMgt 3421 Business of Sport
A-F only, 3 credit(s);
Instructor: Lisec, John Phillip Stephen
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 Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: STAFF
Description: Relationship between sport and contemporary social institutions (politics, religion, economics, education, mass media). Emphasizes groups/individuals who have historically been marginalized or excluded from sport participation. Variables such as race, sex, social class, sexual orientation, physical (dis)abilities also emphasized.

SMgt 3501H Sport in a Diverse Society: Honors
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences
Instructor: Buysse PhD, Jo Ann
Description: This course is designed to examine the pervasive and significant relationships between the social constructions of sport and physical activity to contemporary social institutions such as politics, religion, economics, education and mass media. It will introduce students to a broad perspective of social issues and social theory related to sport. In addition it will afford students the opportunity to critically explore and increase their understanding of how specific social categories such as age, gender, race, sex, social class, religion, sexual orientation and physical disabilities, intersect to influence participation and experiences of individuals within sport and physical activity contexts. In short, students will explore the “deeper game” through which sports and physical activities become an integral part of the social and cultural worlds in which we live. Students will develop critical thinking, reflection, reading, discussion and writing skills. A Service Learning component that connects theory to practice is a requirement in this course.
Style: 25% Lecture, 10% Film/Video, 20% Discussion, 10% Small Group Activities, 10% Student Presentation, 25% Service Learning.

SMgt 3601 Ethics and Values in Sport
A-F only, 2 credit(s);
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);
Instructor: STAFF
Description: Fundamental theories/issues in sport marketing, grounded in traditional marketing principles. Unique applications to sport business industry.
Style: 50% Lecture, 20% Discussion. Guest speakers; 15% group projects
Grading: 20% mid exam, 30% final exam, 30% reports/papers, 10% special projects, 10% in-class presentation.
Exam Format: varied

SMgt 3632 Sport Sales and Fund-raising
A-F only, 3 credit(s);
Instructor: STAFF
Description: Foundation of revenue production in sport management. Necessary skills related to revenue production and
sales processes as they apply to the business of sport.

SMgt 3861 Legal Aspects of Sport
A-F only, 3 credit(s);
Instructor: Allison JD,Rayla
Description: U.S. legal system, its structure/terminology. Sport legal aspects of contract law, statutory law, constitutional law, intellectual property, negligence, risk management. Managerial analysis, decision making.

SMgt 3861 Legal Aspects of Sport
A-F only, 3 credit(s);
Instructor: Wang,Sandy
Description: U.S. legal system, its structure/terminology. Sport legal aspects of contract law, statutory law, constitutional law, intellectual property, negligence, risk management. Managerial analysis, decision making.

SMgt 3881W Senior Seminar in Sport Management
A-F only, 3 credit(s);Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Presentations/discussions on sport-related topics of interest.

SMgt 3993 Directed Study in Sport Management
A-F only, 1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Buysse PhD,Jo Ann
Description: Student may contact the instructor or department for information.

SMgt 3993 Directed Study in Sport Management
A-F only, 1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Allison JD,Rayla
Description: Student may contact the instructor or department for information.

SMgt 3993 Directed Study in Sport Management
A-F only, 1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Maturi,Joel
Description: Student may contact the instructor or department for information.

SMgt 3993 Directed Study in Sport Management
A-F only, 1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Ross PhD,Stephen
Description: Student may contact the instructor or department for information.

SMgt 3993 Directed Study in Sport Management
A-F only, 1-3 credit(s), max credits 3, 3 completions allowed;
Instructor: Kihl PhD,Lisa A
Description: Student may contact the instructor or department for information.

SMgt 3996 Practicum: The Sport Experience
S-N only, 2-8 credit(s), max credits 8, 4 completions allowed;
Instructor: Kihl PhD,Lisa A
Description: Student may contact the instructor or department for information.

Statistics
313 Ford Hall

Stat 1001 Introduction to the Ideas of Statistics
4 credit(s);Meets CLE req of Mathematical Thinking
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); Credit will not be granted if credit has been received for: STAT 5021; Meets CLE req of Mathematical Thinking
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);
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);
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 4102 Theory of Statistics II
4 credit(s); 4101 Credit will not be granted if credit has been received for: STAT 5102;
Instructor: Doss, Charles R
Description: Student may contact the instructor or department for information.

Stat 4893W Senior Project
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: STAFF
Description: STAT 4893W is a requirement for a BA in Statistics in CLA. It also fulfills the University requirement of a Writing Intensive course in the major. It can be satisfied in several ways including but not limited to directed study culminating in a paper on a specialized area of Statistics (most common choice), carrying out a "case study" involving data collection and analysis and a report, and writing and documenting a computer program to implement a nontrivial statistical technique. Students should enroll in any semester of their Senior year. If work is unfinished at semester end (as frequently happens), an incomplete (I) is usually granted. The topic of the paper should be chosen in consultation with a Statistics faculty supervisor. Frequently this faculty member will be the student's instructor in STAT 5xxx, and the paper will build from the course. See http://www.stat.umn.edu/ugrad/stat4893.html for more information.

Grading: 100% reports/papers.

Stat 5021 Statistical Analysis
4 credit(s); 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 these 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);
Instructor: Yang,Yuhong
Description: Student may contact the instructor or department for information.

Stat 5102 Theory of Statistics II
4 credit(s);
Instructor: Wang,Ke
Description: Student may contact the instructor or department for information.

Stat 5302 Applied Regression Analysis
4 credit(s);
Instructor: Xu,Gongjun
Description: Student may contact the instructor or department for information.

Stat 5303 Designing Experiments
4 credit(s);
Instructor: Corbett,John
Description: Student may contact the instructor or department for information.

Stat 5401 Applied Multivariate Methods
3 credit(s);
Instructor: Chatterjee,Singdhansu Bhusan
Description: Student may contact the instructor or department for information.

Stat 5931 Topics in Statistics: Statistical Consulting
3 credit(s);
Instructor: Shea,Brian
Description: Student may contact the instructor or department for information.

Stat 5932 Topics in Statistics
3 credit(s);
Instructor: Chatterjee,Singdhansu Bhusan
Description: Student may contact the instructor or department for information.

Stat 5993 Tutorial
1-6 credit(s), max credits 12, 12 completions allowed;
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);
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
Stat 8102 Theory of Statistics 2
- 4 credit(s);
- Instructor: Zou,Hui
- Description: Student may contact the instructor or department for information.

Stat 8112 Mathematical Statistics II
- 3 credit(s);
- Instructor: Wang,Lan
- Description: Student may contact the instructor or department for information.

Stat 8501 Introduction to Stochastic Processes with Applications
- 3 credit(s);
- Instructor: Geyer,Charles J
- 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;
- Instructor: Rendahl,Aaron
- 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;
- Instructor: Rothman,Adam Joseph
- Description: Student may contact the instructor or department for information.

Stat 8931 Advanced Topics in Statistics: Likelihood Methods
- 3 credit(s), max credits 12, 4 completions allowed;
- Instructor: Shen,Xiaotong Tom
- Description: Student may contact the instructor or department for information.

Stat 8932 Advanced Topics in Statistics: Climate Statistics
- 3 credit(s), max credits 12, 4 completions allowed;
- Instructor: Chatterjee,Singdhansu Bhusan
- 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: Gill,Jefferson Morris
- Description: Student may contact the instructor or department for information.

**Stem Cell Biology**  
**Stem Cell Institute**

Stem Cell 5054 Stem Cell Institute Research Seminar and Journal Club
- A-F only, 2 credit(s), max credits 6, 3 completions allowed;
- Instructor: Keirstead,Susan Alice
- Description: Student may contact the instructor or department for information.

**Studies in Cinema and Media Culture**  
**235 Nicholson Hall**

SCMC 1201 Introduction to Cinema and Media Culture
- 4 credit(s); Credit will not be granted if credit has been received for: CSCL 1201; Meets CLE req of Arts/Humanities
- 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 3202 Intermediate Digital Filmmaking
A-F only, 4 credit(s);
Instructor: Bizri, Hisham M.
Description: This is the second part of the digital filmmaking sequence where students deepen their understanding of filmmaking by completing a single film of any length, 24 frames or feature-length. Throughout the semester we will pay special attention to the formal analysis of narrative and non-narrative cinema by looking at the function of frames, shots, and sequences, and the relation of parts to the whole. Open to students who have completed a film or a script in the past.

SCMC 5002 Advanced Film Analysis
A-F only, 4 credit(s);
Instructor: Johnson, Kjel Wayne
Description: SCMC 5002 emphasizes the advanced application of textual analysis to the reading of a film. In this course, students will work individually and collaboratively to discern and interpret all component aural/visual elements of particular films viewed as complex systems of signification and the production of meaning: examinations of mise-en-scene, montage, music, narrative, performance, and intertextuality (even inter-mediality) will all come into play. On a supplementary path, we will also pay heed to key historical and contemporary trends, modes, and methods of film analysis, including classical aesthetic criticism, structuralist analysis, auteur and genre theories, Marxian and psychoanalytic criticism, and even popular criticism. Thus, we will both read films and read the traditions imbricated in our methods of reading. Both the films and the interpretive, analytical, and critical positions we will explore will span from the silent era to the arguably post-cinematic present. Required course materials will include Thomas Elsaesser & Warren Buckland’s “Studying Contemporary American Film,” Susan Hayward’s “Cinema Studies: The Key Concepts,” and Linda Williams & Christine Gledhill’s “Reinventing Film Studies,” in addition to several additional articles and works of film theory, criticism, and analysis to be made available on the course website. Films (in whole and in part) will likely include: The Passion of Joan of Arc (Dreyer, 1928), The Third Man (Reed, 1949), The Wild Bunch (Peckinpah, 1969), Chinatown (Polanski, 1974), The Shining (Kubrick, 1980), Die Hard (McTiernan, 1988), The Silence of the Lambs (Demme, 1991), Lost Highway (Lynch, 1997), The Devil’s Backbone (del Toro, 2001), and Cache (Haneke, 2005).

Studies of Science and Technology 746 Heller Hall

SST 8000 Colloquium
S-N only, 1.5 credit(s), max credits 3;
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 philosophy and history of science and technology.

SST 8400 Seminar: Science, Technology, and Society
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Supply Chain and Operations 3-140 Carlson School of Management

SCO 2550 Business Statistics: Data Sources, Presentation, and Analysis
A-F only, 4 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

SCO 3001 Introduction to Operations Management
A-F only, 3 credit(s);
Instructor: STAFF
Description: Basic concepts, principles, and techniques for managing manufacturing and service operations. Emphasis on decision making in the operations function of organizations. Quantitative and qualitative methods for improving the management of operations stressed. Management students provided with an appreciation of the operations function of organizations.
Style: 50% Lecture, 30% Discussion. interactive games
Grading: 20% mid exam, 30% final exam, 10% quizzes, 15% class participation, 25% problem solving.

Exam Format: multiple choice, short answer, problem solving

SCO 3045 Sourcing and Supply Management
A-F only, 2 credit(s);
Instructor: Buchner, Thomas Wayne
Description: Student may contact the instructor or department for information.

SCO 3056 Supply Chain Planning and Control
A-F only, 4 credit(s);
Instructor: STAFF
Description: Concepts and principles related to designing, controlling, and improving production and inventory management systems throughout the supply chain. Topics include capacity planning, inventory planning, production planning, forecasting methods, Materiel Requirements Planning (MRP), Just-in-Time, and theory of constraints.

SCO 3059 Quality Management and Lean Six Sigma
A-F only, 4 credit(s);
Instructor: STAFF
Description: Planning and organizing performance improvement of processes, products, and services; Six Sigma process management systems; quality aspects of product/service design; quality determination cost, customer/vendor relations; process control; quality control; management of improvement process; and organizational assessment of quality. Introduction to concepts relevant to service/manufacturing.

SCO 3072 Managing Technologies in the Supply Chain
A-F only, 2 credit(s);
Instructor: Sinha, Kingshuk Kanti
Description: Student may contact the instructor or department for information.

SCO 4065W Supply Chain and Operations Strategy
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Donohue, Karen Lisa
Description: This course is the Senior Capstone for the Supply Chain and Operations major. As such, we will cover not only the latest concepts in supply chain and operations strategy, but also work to develop the leadership and communication skills necessary to succeed as a supply chain and operations professional. Special emphasis will be placed on developing written communication skills, as evidence by the course’s designation as a Writing Intensive (W-I) course. The course will be valuable for students going into consulting, distribution, manufacturing, sourcing, and other supply chain and operations centric careers. Supply chain and operations management has been one of the major growth areas in consulting over the past few years and an increasing number of industries consider expertise in this area vital; these include retailing, high-tech, consumer goods, automotive, chemical, pharmaceutical and food & beverage industries. Students taking this course will learn the fundamentals of successfully exploiting global supply chains by looking strategically at the full supply chain, understanding the total cost economics, and adjusting for the appropriate industry dynamics.
Style: The course is case-based and discussion driven. Class time will be spent discussing cases and assigned readings, taking part in exercises, practicing informal writing, and engaging in interactive lectures. The course will feature a number of guest lectures.

SCO 6041 Project Management
A-F only, 2 credit(s);
Instructor: Siemsen, Enno
Description: In the course of their careers, contemporary managers will spend a significant amount of time either participating in or leading projects. Projects are frequently used as proving-grounds for high-potentials. The skills that are required in project management are often the very same attributes that are required for successfully managing a business. While every project is by definition unique, some concepts and tools in project management apply to a wide range of different types of projects. The aim of this course is to equip students with these concepts and tools, and to develop them into successful project managers (and team members). The goal of this course is neither to further refine existing project-management specialists in their expertise, nor to specifically train students for Project Management Certification. Rather, the objective is to equip business generalists (i.e., any career concentration) with project management related skills that will be useful throughout their careers. With that aim in mind, the course will focus on broadly applicable concepts and methods and will cover both qualitative and quantitative aspects of project management.
Style: 50% Lecture, 15% Discussion, 25% Small Group Activities, 10% Guest Speakers.
Grading: 30% mid exam, 40% reports/papers, 20% written homework, 10% other evaluation.
SCO 6056 Managing Supply Chain Operations
A-F only, 4 credit(s);
Instructor: Buchner, Thomas Wayne
Description: Student may contact the instructor or department for information.

SCO 6072 Managing Technologies in the Supply Chain
A-F only, 2 credit(s);
Instructor: Sinha, Kingshuk Kanti
Description: Student may contact the instructor or department for information.

SCO 6850 Topics in Operations and Management Science: Sales and Operations Planning
A-F only, 2 credit(s), max credits 12, 4 completions allowed;
Instructor: Siemsen, Enno
Description: Student may contact the instructor or department for information.

SCO 8735 Supply Chain Management
A-F only, 3 credit(s);
Instructor: Mehrotra, Mili
Description: Student may contact the instructor or department for information.

Surgery
11-100 Phillips Wangensteen Bldg (Box 195)

Surg 8293 Applied Statistics
S-N only, 1 credit(s);
Instructor: Gruessner, Angelika C
Description: Student may contact the instructor or department for information.

Sustainability Studies
190 Coffey Hall

Sust 3003 Sustainable People, Sustainable Planet
3 credit(s); Soph or Jr or Sr Credit will not be granted if credit has been received for: GLOS 3304; Meets CLE req of Environment
Instructor: Byrd, Kimberly Lynn
Description: Student may contact the instructor or department for information.

Sust 4004 Sustainable Communities
A-F only, 3 credit(s);
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 4, 1 completion allowed;
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);
Instructor: Muaka, Angaluki
Description: Student may contact the instructor or department for information.

Swah 3226 Intermediate Swahili II
5 credit(s); 3225 or equiv Credit will not be granted if credit has been received for: SWAH 4226;
Instructor: Muaka, Angaluki
Description: Student may contact the instructor or department for information.
Swah 4222 Beginning Swahili II
2 credit(s);
Instructor: Muaka, Angaluki
Description: Student may contact the instructor or department for information.

Swah 4226 Intermediate Swahili II
2 credit(s); [4225 or equiv], grad student
Credit will not be granted if credit has been received for: SWAH 3226;
Instructor: Muaka, Angaluki
Description: Student may contact the instructor or department for information.

Swedish 320 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); 1001 Credit will not be granted if credit has been received for: SWED 4002;
Instructor: Herrlin, Susanne Marie
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

**Swed 1002 Beginning Swedish**

5 credit(s); 1002

**Credit will not be granted if credit has been received for:** SWED 4002;

**Instructor:** Listemaa, Jacqueline Dawn

**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

**Swed 1004 Intermediate Swedish**

5 credit(s); 1003

**Credit will not be granted if credit has been received for:** SWED 4004;

**Instructor:** Norrmann, Lena Elisabeth

**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.

**Swed 1004 Intermediate Swedish**

5 credit(s); 1003

**Credit will not be granted if credit has been received for:** SWED 4004;

**Instructor:** Listemaa, Jacqueline Dawn

**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.

**Swed 4002 Beginning Swedish**

2 credit(s); 1004

**Credit will not be granted if credit has been received for:** SWED 1002;

**Instructor:** Norrmann, Lena Elisabeth

**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

**Swed 4002 Beginning Swedish**

2 credit(s); 1004

**Credit will not be granted if credit has been received for:** SWED 1002;

**Instructor:** Listemaa, Jacqueline Dawn

**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

**Swed 4004 Intermediate Swedish**

2 credit(s);1004 in another language or passing score on LPE or grad student

Credit will not be granted if credit has been received for: SWED 1004;

Instructor: Norman,Lena Elisabeth

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.

**Swed 4004 Intermediate Swedish**

2 credit(s);1004 in another language or passing score on LPE or grad student

Credit will not be granted if credit has been received for: SWED 1004;

Instructor: Listemaa,Jacqueline Dawn

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.

**TMJ/Craniofacial Pain** 15-209 Malcolm Moos Health Sciences Tower

**TMJP 8441 Seminar in TMJ and Craniofacial Pain**

A-F only, 1 credit(s);

Instructor: Mulet Pradera DDS,MS,Mariona

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

**TMJP 8442 Advanced Clinical TMJ and Craniofacial Pain**

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

Instructor: Mulet Pradera DDS,MS,Mariona

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

**Theatre Arts** 580 Rarig Center

**Th 1101V Honors Section: Introduction to the Theater**

A-F only, 4 credit(s);Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive

Instructor: Kuftinec,Sonja

Description: 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. Students study plays (historical and contemporary), 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 prior experience required). TH1101 promotes collaboration and critical thinking, enhances oral communication skills and the creative application of knowledge. Mostly, Introduction to Theater explores the human experience through intersections of art, history, and culture through collaborative exchange. Meets Lib Ed req of Arts & Humanities Core and is a Writing Intensive class.

**Th 1101W Introduction to the Theatre**

4 credit(s);Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive

Instructor: Kuftinec,Sonja

Description: 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. Students study plays (historical and contemporary), 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 prior experience required). TH1101 promotes collaboration and critical thinking, enhances oral communication skills and the creative application of knowledge. Mostly, Introduction to Theater explores the human experience through intersections of art, history, and culture through collaborative exchange. Meets Lib Ed req of Arts & Humanities Core and is a Writing Intensive class.

Th 1102 Drama and the Media
3 credit(s); Meets CLE req of Arts/Humanities
Instructor: Haynes, Wade Daniel
Description: This semester we will focus on the relationship between violence and the media. We will explore this topic by looking critically at reality television, rap music, the Western film genre (including Tarantino’s Django Unchained), contemporary horror cinema, portable music media (from iPods to boom boxes), etc. In this class, we will assemble basic skills for reading and understanding media from a variety of perspectives (myth, coding, narrative, audiences, and so on). The course is specifically tailored to address contemporary pressing issues, fresh trends and recent events. No previous knowledge with ideas or texts is necessary and the instructor is very interested in student input regarding the content and shape of the course material.

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);
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);
Instructor: Sommers, Michael J
Description: Student may contact the instructor or department for information.

Th 1322 Creating the Performance
3 credit(s);
Instructor: Taylor, Dominic A
Description: Student may contact the instructor or department for information.

Th 1381 New Voices
S-N only, 1 credit(s);
Instructor: Pearson, Deborah J
Description: Student may contact the instructor or department for information.

Th 1395 BFA Acting II
A-F only, 3 credit(s);
Instructor: Cardamone, Steve  
Description: Student may contact the instructor or department for information.

Th 1396 BFA Voice and Speech II  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: BFA Core Component

Th 1397 BFA Movement II  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: BFA Core Component

Th 1501 Introduction to Design and Technology for Live Performance  
A-F only, 3 credit(s);  
Instructor: Maxwell, Katherine Nicole  
Description: Student may contact the instructor or department for information.

Th 1910W Topics: Freshman Seminar: Live Theatre: Creating & Expressing Community  
A-F only, 3 credit(s); Meets CLE req of Writing Intensive  
Instructor: Kuftinec, Sonja  
Description: Student may contact the instructor or department for information.

Th 1950 Topics in Theater: Psycho-Physical Studio: Laban  
1 credit(s), max credits 6;  
Instructor: Tutt, Andrea Dawn  
Description: Student may contact the instructor or department for information.

Th 2395 BFA Acting IV  
A-F only, 3 credit(s);  
Instructor: Cardamone, Steve  
Description: Student may contact the instructor or department for information.

Th 2396 BFA Voice and Speech IV  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: BFA Core Component

Th 2397 BFA Movement IV  
A-F only, 2 credit(s);  
Instructor: STAFF  
Description: BFA Core Component

Th 3100 Theatre Practicum  
S-N only, 1 credit(s), max credits 4, 4 completions allowed;  
Instructor: STAFF  
Description: Do you want to get involved in production on the Main Season for University Theatre? This is a course that can give you that opportunity. You will be assigned a specific position on a production and get a chance to work on as well as see first hand what goes into a full scale theatrical production. Come and explore the possibilities.  
Style: 5% Lecture, 95% Laboratory.  
Grading: 5% class participation, 95% laboratory evaluation.

Th 3120 Theatre: Theory and Practice  
3 credit(s), max credits 6;  
Instructor: Melias, Michael John  
Description: Student may contact the instructor or department for information.

Th 3172 History of the Theatre: Age of Enlightenment to Present  
3 credit(s);  
Instructor: Pahwa, Sonali
Th 3330 Physical Approaches to Acting
3 credit(s), max credits 6;
Instructor: Longhi, Kym R
Description: Student may contact the instructor or department for information.

Th 3332 Circus Performance
A-F only, 1 credit(s);
Instructor: Emery, Margaret
Description: Student may contact the instructor or department for information.

Th 3361 Introductory Musical Theater
A-F only, 3 credit(s);
Instructor: Nash PhD, Elizabeth Hamilton
Description: The focus of this fourteen week course is on the development of essential dance and singing warm-ups and skills, textual interpretation, character development, repertory building and audition techniques for Musical Theatre. Students will perform song and dance works from Musical Theatre to culminate in a final Cabaret Performance.

Th 3381 Theater Storytelling and Solo Performance
3 credit(s);
Instructor: Nash PhD, Elizabeth Hamilton
Description: This course employs the theatre storytelling and solo performance techniques of the playwright, author, actress and professor Anna Deavere Smith, MacArthur Fellowship ("genius grant") recipient and Drama Desk Award winner for Outstanding One-Person Show. The first assignment will be a jointly conducted in class interview by the students of a local professional theatrical performer. The students will then submit their own written versions of the interview for analysis and critique. The second assignment will be individual interviews of local persons. The student will then create a script from the information obtained in the interview and portray the person incorporating their body language and idiosyncrasies. The third assignment will be the preparation of a script and solo performance personified by the student based on the life of a theatrical or musical performer. There will be in class readings from the writings of Jacob and Wilhelm Grimm, Hans Christian Andersen, Oscar Wilde, Sir Arthur Conan Doyle, J. R. R. Tolkien, C. S. Lewis, Ludwig Bemelman, P. J. Travers, Studs Terkel and J. K. Rowling to hone the students' storytelling skills.

Th 3395 BFA Intensive I
A-F only, 2 credit(s);
Instructor: STAFF
Description: BFA Core Component

Th 3398 BFA Rehearsal & Performance I
A-F only, 2 credit(s);
Instructor: STAFF
Description: BFA Core Component

Th 3399 BFA Rehearsal and Performance II
A-F only, 2 credit(s);
Instructor: STAFF
Description: BFA Core Component

Th 3531 Introduction to Theatrical Costume Design
3 credit(s);
Instructor: Lefebvre, Matthew James
Description: Student may contact the instructor or department for information.

Th 3541 Introduction to Stage Lighting Design
3 credit(s);
Instructor: Dilliard, Marcus F
Description: Student may contact the instructor or department for information.

Th 3559 Introduction to Sound Design for the Theatre
3 credit(s);
Instructor: Johnson, Montana J
Description: Student may contact the instructor or department for information.

Th 3571 Introduction to Stage Technology
A-F only, 3 credit(s);
Instructor: Healey, Bill
Description: Student may contact the instructor or department for information.

Th 3716 Stage Management
A-F only, 4 credit(s);
Instructor: Swartwout, Christine M
Description: Student may contact the instructor or department for information.

Th 3950 Topics in Theatre: BA Mentoring
1 credit(s), max credits 8, 8 completions allowed;
Instructor: Seifert, Luverne G
Description: Student may contact the instructor or department for information.

Th 4178W Survey of Dramatic Literature II: Representation and its Effects
3 credit(s); Meets CLE req of Writing Intensive
Instructor: Werry, Margaret L
Description: This course is the second part of a two-course sequence designed to introduce students to strategies for the analysis of dramatic literature. By working with a range of play texts, critical essays, and theoretical interventions, this course explores theatre as a space for creative engagement and critical thought that can happen both on the stage and on the page. In practical exercises, lecture, discussion, and writing, students examine the ways in which dramatists engage with pressing cultural problems by revisiting and reinterpreting canonical works of dramatic literature. The course understands theatre as a broad cultural practice, and so includes works of popular theatre alongside classical texts, performance art alongside traditional play scripts, and covers a range of non-Western material. Note: This course is listed as a writing intensive course, and thus a significant component of the course focuses on training students to express their responses to dramatic literature in written form.
Style: 35% Lecture, 65% Discussion.
Grading: 45% reports/papers, 25% class participation, 30% other evaluation. performance project

Th 4380 Creative Collaboration
1-3 credit(s), max credits 12, 4 completions allowed;
Instructor: STAFF
Description: Ensemble creation of a single theatre performance work. Creative/dramaturgical work. Public showing of work, completed or in-progress. Students work collaboratively with faculty or affiliate guest artists.

Th 4395 BFA Intensive III
A-F only, 2 credit(s);
Instructor: STAFF
Description: BFA Core Component

Th 4398 BFA Rehearsal and Performance V
Th 4399 BFA Rehearsal and Performance VI
A-F only, 2 credit(s);
Instructor: STAFF
Description: BFA Core Component

Th 4532 Makeup for the Actor
2 credit(s);
Instructor: Bundick, Theresa Jane
Description: This makeup course is structured with an hour long demonstration by the instructor followed by a very practical, hands on application of the make up techniques by the student on their own faces. Topics covered are highlights and shadows, beauty, correction, skinny and stout, gender reversal, beards and facial hair, period hair styles, trauma, old age, fantasy, animals, character from a play, historical character, bald caps, and white face (clowns). There is a written final and a final make up design and application by the student. One short paper is required analyzing the make up and hair design in a play of the student's choice.

Th 4905H Honors: Tutorial Seminar in Theatre Arts
A-F only, 2-4 credit(s), max credits 4, 1 completion allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Th 5100 Theatre Practicum
1-4 credit(s), max credits 20, 10 completions allowed;
Instructor: STAFF
Description: Individual creative projects in production of approved plays as an actor, director, dramaturg or playwright.

Th 5179W Text and Performance
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Channer, Lisa E
Description: Student may contact the instructor or department for information.

Th 5181W Blacks in American Theatre
3 credit(s); Credit will not be granted if credit has been received for: AFRO 5181W; Meets CLE req of Writing Intensive
Instructor: Taylor, Dominic A
Description: Student may contact the instructor or department for information.

Th 5330 Comedy: Advanced Physical Performance Studio
A-F only, 3 credit(s);
Instructor: Rosen, Robert S
Description: Student may contact the instructor or department for information.

Th 5370 Hand, Mind, and Gesture: An Independent Study in the Creation of Image Driven Performance
3 credit(s);
Instructor: Sommers, Michael J
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;
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 5520 Scene Design
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Dilliard, Marcus F
Description: Student may contact the instructor or department for information.

Th 5556 Audio Engineering
3 credit(s);
Instructor: Gwinup, Martin Bruce
Description: What is the best way to record an acoustic guitar? How should you set up microphones to record a grand piano? Should I record the bass amp or should I take a direct line? How should I place the instruments in this mix. These questions and many others are asked and answered in this course. The students get hands on training in the areas of micing, mixing, and recording music in a studio environment. Bands are brought in and the students take on responsibilities such as, engineer, Studio Technician, Producer, etc. Everyone will get hands on access to a modern equipped recording studio and gain experience on mixing with a state of the art digital console. TH4555 Audio Technology is a prerequisite for this course.
Style: 30% Lecture, 20% Discussion, 50% Laboratory.
Grading: 20% quizzes, 60% laboratory evaluation, 20% other evaluation. Attendance

Th 5560 Drawing, Rendering, and Painting for the Theatre Designer II
3 credit(s);
Instructor: Lefebvre, Matthew 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;
Instructor: Allyn-Schwerin, Jason Daniel
Description: Student may contact the instructor or department for information.

Th 5580 Costume Technology
3 credit(s), max credits 15, 5 completions allowed;
Instructor: Binder-Pettigrew, Susan M
Description: The emphasis for the Fall 2011 will be Pattern Making. We will explore pattern making by the flat pattern and draping methods. The experience will culminate in a final project using both techniques patterning and making a period bodice.

Th 5580 Costume Technology
3 credit(s), max credits 15, 5 completions allowed;
Instructor: Gramann II, Dwane J
Description: Student may contact the instructor or department for information.

Th 5590 Theatre Technology Practicum
1-3 credit(s), max credits 15, 15 completions allowed;
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 5716 Stage Management for the Theatre
4 credit(s);
Instructor: Swartwout, Christine M
Description: Student may contact the instructor or department for information.

Th 5760 Advanced Stage Management
2-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Swartwout, Christine M
Description: Student may contact the instructor or department for information.

Th 5950 Topics in Theatre: Indust. Revolution/Isolation
3 credit(s), max credits 20, 20 completions allowed;
Instructor: Dilliard, Marcus F
Description: Student may contact the instructor or department for information.

Th 5993 Directed Study
1-5 credit(s), max credits 20, 20 completions allowed;
Instructor: STAFF
Description: Guided individual reading or study.

Th 8120 Seminar
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Garcia, Cindy
Description: Student may contact the instructor or department for information.

Th 8120 Seminar
3 credit(s), max credits 12, 4 completions allowed;
Instructor: Pahwa, Sonali
Description: Student may contact the instructor or department for information.

Th 8950 Topics in Theatre: MFA Professional Design Workshop
2 credit(s), max credits 8;
Instructor: Lefebvre, Matthew James
Description: Student may contact the instructor or department for information.

Th 8990 MFA Creative Thesis
3-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Dilliard, Marcus F
Description: Student may contact the instructor or department for information.

Th 8994 Directed Research
1-5 credit(s), max credits 5, 1 completion allowed;
Instructor: Werry, Margaret L
Description: Student may contact the instructor or department for information.

Toxicology 244 Veterinary Diagnostic Lab

Txcl 5000 Directed Research in Toxicology
A-F only, 1-5 credit(s), max credits 80, 16 completions allowed;
Instructor: Murphy, Michael J
Description: Student may contact the instructor or department for information.

Translation and Interpreting 160 McNamara Center

TrIn 990 Interpreting in Special Education Settings
S-N only, 0 credit(s);
Instructor: Tapias-Heinrich, Betty Ann
Description: Student may contact the instructor or department for information.

TrIn 3002 Intermediate Translation
3 credit(s), max credits 6;
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);  
Instructor: STAFF  
Description: A practical and theoretical introduction to interpreting in health, human service, and legal settings. Emphasis on understanding the unique role of the interpreter, current models and modes of interpreting, ethical issues and professional standards of practice, and developing skills in understanding and analyzing spoken language.

TrIn 3102 Consecutive Interpreting  
3 credit(s);  
Instructor: McCalip,Silvia Elena  
Description: Student may contact the instructor or department for information.

TrIn 3900 Topics in Translation and Interpreting  
3 credit(s), max credits 12, 4 completions allowed;  
Instructor: STAFF  
Description: Student may contact the instructor or department for information.

TrIn 4201 Interpreting in Health Care Settings  
A-F only, 3 credit(s);  
Instructor: Lander Cabrera,Maria Pilar  
Description: Student may contact the instructor or department for information.

TrIn 4301 Interpreting in Legal Settings  
A-F only, 3 credit(s);  
Instructor: Diaz,Andres  
Description: Student may contact the instructor or department for information.

TrIn 5993 Directed Study  
1-3 credit(s), max credits 6;  
Instructor: Homler,Scott A  
Description: Student may contact the instructor or department for information.

University College  
20 Ruttan Hall

UC 1005 Global Perspectives on Higher Education  
2 credit(s), max credits 4;  
Instructor: Peters,Bethany Denise  
Description: Student may contact the instructor or department for information.

UC 1005 Global Perspectives on Higher Education  
2 credit(s), max credits 4;  
Instructor: Tokuji,Yuki  
Description: Student may contact the instructor or department for information.

UC 1485 Creativity: Photography  
4 credit(s); Own camera [35 mm w/adjustable controls preferred], UC; $50 lab fee Credit will not be granted if credit has been received for: PSTL 1485;  
Instructor: Millikan,Jeffrey B  
Description: Conceptual, technical, and historical aspects of photography as art. Hands-on experience with camera control, film development, enlarging, and printing in black-and-white. Individual/group critiques of student portfolios. Lab.

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. Students create a website for a final project.
UC 4301 Perspectives: Interrelationships of People and Animals in Society Today
2 credit(s), max credits 3, 1 completion allowed; Credit will not be granted if credit has been received for: VCS 3050;
Instructor: Wilke, Vicki L
Description: Student may contact the instructor or department for information.

Urban Studies 348 Social Sciences Building

UrbS 1001W Introduction to Urban Studies: The Complexity of Metropolitan Life
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Brinda, Mark Richard
Description: Student may contact the instructor or department for information.

Urban Studies Colloquium

UrbS 3001W Introduction to Urban Studies: The Complexity of Metropolitan Life
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Brinda, Mark Richard
Description: Student may contact the instructor or department for information.

UrbS 3202 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Trow, Tom
Description: Student may contact the instructor or department for information.

UrbS 3202 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Pentel, Paula R

UrbS 3202 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Ero-phillips, Samuel B

UrbS 3202 Urban Studies Colloquium
A-F only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Van Cleve, Stewart John
Description: Student may contact the instructor or department for information.

UrbS 3500 Urban Studies Workshop
A-F only, 3 credit(s), max credits 9, 3 completions allowed;
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) BlegH 240, TCWESTBANK, 3 credits This course will (1) explore and explain disparate disciplines that interact with and depend on each other in urban real estate development while (2) explaining development itself as a holistic, ecological process and profession. The class will first explore the 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 more about financial analysis, a critical fundamental language of urban development. Pat Connolly was a housing specialist for Commonbond Housing, and is now the director of housing development for Lutheran Social Services.

**UrbS 3751 Understanding the Urban Environment**  
A-F only, 3 credit(s); Meets CLE req of Environment  
**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, 5% Small Group Activities, 5% Field Trips.  
**Grading:** 25% final exam, 10% reports/papers, 40% quizzes, 5% in-class presentation, 10% class participation, 10% other evaluation. Fieldtrip reaction paper  
**Exam Format:** multiple choice and short answer

**UrbS 3771 Fundamentals of Transit**  
A-F only, 3 credit(s);  
**Instructor:** Loetterle, Francis E  
**Description:** Transportation is a fundamental characteristic of urban systems. Participation in the variety of activities available in the urban environment requires movement; transportation provides the means to move from one place to another. Urban transit, as one of the forms of urban transportation, has unique characteristics that need to be understood by the urban planner. This course is not simply a justification for transit. This course will focus on all aspects of the delivery of transit services, including funding, service planning, facility design and implementation. Special emphasis will be placed on the types of transit services available and matching services to the market. This includes regular route bus, heavy rail, light rail, commuter rail, bus rapid transit, personal rapid transit, and demand responsive services. While there will be extensive discussion of the Twin Cities, students will be exposed to a variety of transit services and technologies not available in the Twin Cities.

**UrbS 3955W Senior Paper Seminar**  
A-F only, 2 credit(s); Meets CLE req of Writing Intensive  
**Instructor:** Pentel, Paula R  
**Description:** Student may contact the instructor or department for information.

**UrbS 3993 Urban Studies Directed Study**  
A-F only, 1-3 credit(s), max credits 6, 3 completions allowed;  
**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.

**Veterinary & Biomedical Sciences**

**VBS 1001 Introduction to Biotechnology**  
A-F only, 4 credit(s); Meets CLE req of Biological Sciences; meets CLE req of Technology and Society  
**Instructor:** Skinner, Pamela Jo  
**Description:** This is an introductory 4 credit course with no prerequisites. The objectives of this course include students achieving a basic understanding of cell biology and biotechnology, and students mastering hands on laboratory exercises using modern molecular biotechnology techniques including exciting technologies such as those used in popular TV shows like CSI to solve crimes. Lectures and laboratory exercises will include a comprehensive introduction to biotechnology applied to plant, animal, and microbial systems. We will provide an introduction to the history of biotechnology, cover the key concepts of cell biology and biotechnology, and discuss and apply current biotechnology procedures. Students will also work in teams while being guided by faculty to develop research strategies to solve a biomedical mystery and develop a research plan. A combination of classroom lectures, team work, and laboratory exercises will be used to gain skills that will be useful towards future courses, possible career directions, and everyday life. Books required are 'Biotechnology for Beginners,' by Reinhard Renneberg and 'Molecular and Cell Biology for Dummies,' by Rene Fester Kratz.  
**Style:** 30% Lecture, 55% Laboratory, 10% Student Presentation, 5% Field Trips.

**VBS 2022 General Microbiology**  
A-F only, 3 credit(s);
Instructor: Merica PhD, Rebecca Ruth  
Description: VBS 2022 is a general microbiology course designed for non-microbiology majors. Many students who take this course are pursuing careers in the allied health fields or use this course as a survey course to introductory microbiology. This lecture course provides an introduction to the study of microorganisms and covers the basic principles of their growth, metabolism, and genetics. Students will be introduced to the relationships between microbes and humans in areas such as health care, food production, and genetic engineering. The lectures focus on microbes that cause disease and include topics such as pathogenicity, epidemiology, and immunology. Various diseases are presented according to the host organ system most affected. Emerging topics and technologies in microbiology are discussed along with their applications to human health, ecology, and the environment. Grade distribution: 100% Lecture. Work Load: 40 pages reading per week, 6 exams. Grade: 100% exams. Exam Format: Multiple-choice. Course Coordinator: Richard Isaacson  
Style: 100% Lecture. Mondays: In-class discussions or review. Wednesdays: In-class lectures or exams. Fridays: Online lectures.  
Grading: 20% final exam, 80% additional semester exams.  
Exam Format: Multiple choice.

VBS 2032 General Microbiology With Laboratory  
A-F only, 5 credit(s); One semester each of college chemistry, biology  
Credit will not be granted if credit has been received for: MICB 3301;  
Instructor: Merica PhD, Rebecca Ruth  
Description: VBS 2032 is a general microbiology course designed for non-microbiology majors. Many students who take this course are pursuing careers in the allied health fields. This lecture/laboratory course provides an introduction to the study of microorganisms and covers the basic principles of their growth, metabolism, and genetics. Students will be introduced to the relationships between microbes and humans in areas such as health care, food production, and genetic engineering. The lectures focus on microbes that cause disease and include topics such as pathogenicity, epidemiology, and immunology. Various diseases are presented according to the host organ system most affected. Emerging topics and technologies in microbiology are discussed along with their applications to human health, ecology, and the environment. The laboratory component of the course provides rigorous training in pathogen handling and identification. Students gain skills in microscopy, aseptic technique, diagnostic testing, and molecular biology. Grade distribution: 60% Lecture, 40% Laboratory. Work Load: 40 pages reading per week, 6 exams, frequent laboratory quizzes, 1 group assignment, 1 laboratory report. Grade: 80% exams, 12% quizzes, 4% group assignment, 4% laboratory report. Exam Format: Multiple-choice. Course Coordinator: Richard Isaacson.  
Style: 60% Lecture, 40% Laboratory. Mondays: In-class discussions or review. Wednesdays: In-class lectures or exams. Fridays: Online lectures.  
Grading: 20% final exam, 4% special projects, 12% quizzes, 60% additional semester exams, 4% laboratory evaluation.  
Exam Format: Multiple choice.

Veterinary Clinical Sciences  
C-339 Veterinary Teaching Hospital

VCS 4606 Small Animal Management  
A-F only, 3 credit(s);  
Instructor: Flynn, Kristi  
Description: Student may contact the instructor or department for information.

VCS 4992 Directed Readings in Veterinary Clinical Sciences  
A-F only, 1-6 credit(s), max credits 12;  
Instructor: Modiano, Jaime  
Description:  
Style: 100% Lecture.

VCS 4993 Directed Study in Veterinary Clinical Sciences  
A-F only, 1-6 credit(s), max credits 12;  
Instructor: Modiano, Jaime  
Description: Student may contact the instructor or department for information.

VCS 4994 Directed Research in Veterinary Clinical Sciences  
A-F only, 1-6 credit(s), max credits 12;  
Instructor: Modiano, Jaime  
Description: Student may contact the instructor or department for information.

Veterinary Medicine, Graduate  
455 Veterinary Teaching Hospital
VMed 5080 Problems in Veterinary Epidemiology and Public Health
A-F only, 1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Bender, Jeff Blaine
Description: Student may contact the instructor or department for information.

VMed 5196 Dairy Production Medicine
A-F only, 4 credit(s);
Instructor: Fetrow, John
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;
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;
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);
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;
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;
Instructor: Overmann, Jed A
Description: Student may contact the instructor or department for information.

VMed 5319 Veterinary Gross Pathology
S-N only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Wuenschmann, Arno
Description: Student may contact the instructor or department for information.

VMed 5410 Scientific Writing and Speaking
A-F only, 2 credit(s);
Instructor: Goyal, Sagar M
Description: Brief description of the course: For graduate students in Health Sciences. Effective writing is essential for any scientific career (graduate students, post docs, faculty, research scientists, clinicians, policy makers, regulators). This course will cover techniques of writing and publishing scientific articles including manuscript preparation, submission and review processes, proofreading and publishing processes, and oral and poster presentations of research data at scientific meetings. Writing effective grant proposals, case reports, resumes, and dissertations will also be covered. Scientific Writing and Speaking (VMED 5410) - Syllabus 2012 Instructor: Sagar M. Goyal Day 1 Introduction Proofreading exercise - Correct BVD sheet Correct syntax; words commonly misspelled; role of spell checker in Microsoft Word Effective presentations Day 2 Prepare excellent posters; Prepare abstracts Assignments for the course (2 presentations/student; prepare manuscript T on the basis of the data provided; proofread several documents including a manuscript; prepare at least 2 abstracts from manuscripts provided) Day 3 Writing ? need, types, steps, how to make it easier to write, where to submit. What is a primary publication? Suggested format for a manuscript. Journals - Authors? instructions, aims, scope Typing (word processing) rules Day 4 Two presentations Detailed instructions for manuscript prep Abstract, title, and authorship Day 5 Two presentations; Introduction, M&M, Results Day 6 Two presentations Discussion, Paragraphing, Acknowledgements, References Day 7 Two presentations Correction of protocol; Correction of 4-page document on references Submission and review process Day 8 Two presentations Correction of abstracts Proofread manuscript M Manuscript T due. Day 9 Two presentations Correct 4-page reference document Day 10 Two presentations Grant Writing Discuss manuscript T Day 11 Two presentations Writing grant proposals Day 12 Two presentations Writing grant proposals Resume preparation Day 13 Two presentations Writing review articles Case Reports Day 14 Two presentations Writing Exercises Ethics in science
Writing Exercises Course review and evaluation; Developing good writing habits

VMed 5594 Research in Veterinary Medicine
1-4 credit(s), max credits 8;
Instructor: Sreevatsan, Srinand
Description: Student may contact the instructor or department for information.

VMed 5670 Bovine Surgery Practicum
S-N only, 2 credit(s);
Instructor: Malone, Erin
Description: This two week intensive course is designed to provide training in ruminant surgery to VMC graduate students and DVMs. The course is unusual in format from most veterinary curriculum offerings and provides an indepth evaluation of food animal surgery principles as well as hands on laboratory components to solidify understanding of the material. Course goal(s): Provide training in ruminant surgery Objectives: Course objectives: 1. To review basic and advanced ruminant surgery principles, including diagnostics and corresponding medical management, in lecture format. 2. To practice principles of ruminant surgery in a variety of laboratory formats
Style: 40% Lecture, 50% Laboratory, 10% Student Presentation. 8-5 M-F for two week blocks (one in fall, one in early spring)
Grading: 20% reports/papers, 20% special projects, 20% in-class presentation, 20% class participation, 20% laboratory evaluation.

VMed 5910 Grant Writing: What Makes a Winning Proposal?
2 credit(s); Credit will not be granted if credit has been received for: CMB 5910;
Instructor: Rutherford, Mark Stephen
Description: Student may contact the instructor or department for information.

VMed 5920 Food Defense: Prepare, Respond, Recover
A-F only, 3 credit(s);
Instructor: Kircher, Amy
Description: Student may contact the instructor or department for information.

VMed 5995 Engaging Intergovernmental Organizations
S-N only, 1 credit(s);
Instructor: Hueston DVM, William D.
Description: Student may contact the instructor or department for information.

VMed 5996 Professional Communications: Current Veterinary, Public Health and Food System Issues
S-N only, 1 credit(s), max credits 2;
Instructor: Hueston DVM, William D.
Description: Student may contact the instructor or department for information.

VMed 5998 Leadership to Address Global Grand Challenges
OPT No Aud, 1.5 credit(s);
Instructor: Bloomberg, Laura L
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;
Instructor: Polzin, David J
Description: Student may contact the instructor or department for information.

VMed 8230 Medical Conference
1 credit(s), max credits 2;
Instructor: Lulich PhD, Jody P
Description: Student may contact the instructor or department for information.

VMed 8292 Journal Club: Large Animal Internal Medicine
A-F only, 1 credit(s), max credits 3, 3 completions allowed;
Instructor: Ward, Christie
Description: Student may contact the instructor or department for information.
Veterinary Population Medicine

VPM 1550 Introduction to the horse including care, handling, and recognizing behaviors
A-F only, 1 credit(s);
Instructor: Vallandingham,Kelly L
Description: Student may contact the instructor or department for information.

VPM 1560 Introduction to Horseback Riding and Horse Health
A-F only, 2 credit(s);
Instructor: Vallandingham,Kelly L
Description: Student may contact the instructor or department for information.

VPM 1905 Freshman Seminar
A-F only, 2 credit(s);
Instructor: Singh,Ashok K
Description: Poisons (also known as toxins) are all around us, in air we inhale, in water we drink, in grocery store we frequently visit and in the house we live in. In general poisons have severe impact on human health and the society. Some of the highly publicized poisoning episodes are listed below. - At 8:15 on the morning of March 20, 1995, people traveling in Tokyo subway lines during rush hour suddenly got very sick for no apparent cause, many died within minutes. Later
investigations revealed that the train was hit with a lethal gas called sarin. - On March 24, 1989, the tanker Exxon Valdez, en route from Valdez, Alaska to Los Angeles, California, ran aground on Bligh Reef in Prince Williams, Alaska, causing the largest oil spill to date in U.S. waters. - On 20th April 2010, an explosion of deep-water Horizon killed 11 men working on the platform and injured 17 others. The gushing well-head released oil for about three month when it was capped on 15 July 2010. About 4.9 million barrels (780,000 m3) of crude oil escaped from the well just before it was capped. - Have you been to Washington DC and seen the Potomac River? At places the water is covered with thick growth of algae. - Dangerous insect eradicators can be purchased from grocery stores and often children get exposed to the chemicals. Washing detergents are dangerous to the environment. Factories emit tons of toxic gases into the environment. Food often gets contaminated with toxic bacteria such as E coli and salmonella. These poisoning episodes, because of their enormity, draw public’s attention. However, humans get exposed to poisons from their everyday activities that mostly go unnoticed. This freshman seminar introduces poisons and poisoning to the students who are interested in knowing and understanding the poisons' health effects and their impact to the society. The course identifies potential health hazards of poisons and methods for preventing exposure. Chemicals we encounter in everyday life are used as examples to evaluate the hazards and risk of exposure and put them into perspective. Students will learn the basic principles of toxicology; tools for assessing the toxicology of chemicals; effects of chemicals on the body; why some people are more sensitive to chemicals than others. An understanding of the relationship between poisons and the society will help us reduce poisoning incidences.

**Style:** 10% Lecture, 20% Film/Video, 30% Discussion, 10% Small Group Activities, 30% Student Presentation. The class has an interactive format including active-learning, student-participation and group activities.

**Grading:** 20% reports/papers, 30% quizzes, 25% in-class presentation, 25% class participation.

**VPM 3101W Animal Toxicology and the Environment**
A-F only, 3 credit(s); Meets CLE req of Environment; meets CLE req of Writing Intensive
Instructor: Singh,Ashok K
Description: Student may contact the instructor or department for information.

**VPM 3700 Equine Reproduction and Breeding Management**
A-F only, 2 credit(s);
Instructor: Kuhle DVM,Kerry J.
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: Dr. Tom Molitor is a Distinguished Teacher and recipient of the Academic Health Center's Academy for Excellence in the Scholarship of Teaching and Learning award. Immunology VPM 4131 is equivalent to MICB 4131. As a result of taking this course, you will be able to: understand and associate concepts related to basic immunology; discuss and solve immunology-related cases and problems; communicate effectively to others on basic and applied aspects of immunology; build up and exercise team-work skills; develop critical thinking skills by participating in the group activities. Course highlight: The format of the course is a combination of active lectures and cooperate learning. The course is designed to help you understand, apply and use basic concepts related to immunology. Molecular, genetics, cellular and whole animal aspects of immunology will be reviewed and discussed. 24 different topics in immunology will be covered during this course, corresponding to the book chapters. A major component of the course is the cooperative learning. Students are expected to interact, discuss questions and arrive at a collective response to the question/case problem.

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

**Grading:** Grades will be based on the percentage of the available points achieved. Typically, >92%-A; 90-92 A-; 87-89 B+; 83-86 B; 80-82 B-; 77-79 C+; 73-76 C; 70-72 C-; 60-70 D; and <60 F.

**Water Resources Science 173 McNeal Hall**

**WRS 5101 Water Policy**
3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: PA 5723;
Instructor: Swackhamer,Deborah L
Description:

**WRS 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.

**WRS 8581 Research and Professional Ethics in Water Resources and Environmental Science**
Writ 1301 University Writing
A-F only, 4 credit(s); Placement in Writ 1301 credit will not be granted if credit already received for freshmen 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. 55% 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); Placement in Writ 1401 credit will not be granted if credit already received for freshmen 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);
Instructor: Wright-Peterson, Virginia M
Description: Student may contact the instructor or department for information.

Writ 1512 Writing Studio II
A-F only, 1 credit(s);
Instructor: Lemer, Bronson John
Description: Student may contact the instructor or department for information.

Writ 3029W Business and Professional Writing
3 credit(s); Credit will not be granted if credit has been received for: ENGL 3029W; Meets CLE req of Writing Intensive
Instructor: STAFF
Description: WRIT 3029W (Business and Professional Writing) is an advanced writing course designed to practice writing for various purposes/audiences. The content of the course is oriented to workplace collaboration and issues of professional literacy. This course addresses business-related issues and focuses on communication among people in organizations, emphasizing the ways written communication has impact through elements of style, tone, and organization. Student work must reflect an understanding of how writing impacts other people. Potential genres include proposals, reports, Web content, e-mail, executive summaries, job search portfolios. In contrast, WRIT 3562W (Technical and Professional Writing) focuses on writing for specific tasks and purposes.

Writ 3101W Writing Arguments
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Haas, Christina
Description: The goals of this course are three-fold: First, students will learn about argument (drawn from a number of theories of argument — from Ancient to post-modern.) The goal of learning about these theories of argument is pragmatic: they will furnish us with a vocabulary for talking about argument and for developing and refining your own written arguments. Second, you will get a great deal of practice, coaching, and feedback on your own writing skills, primarily as these concern argumentative writing. I see my role as writing teacher as akin to a tennis coach or an instructor of music — providing feedback, mentorship, and modeling of writing and argument. Third, you will learn how to analyze argumentative texts. Such texts will be drawn from popular culture, academic fields, the public realm. In fact, we’ll learn that argument is ubiquitous in contemporary culture — virtually no text is “out of bounds” for our argumentative-analytic tools. We’ll explore and construct different kinds of argument — arguments of fact, arguments of policy — as well as arguments presented in a variety of modalities, including print, image, video, sound.
Style: 20% Lecture, 20% Discussion, 20% Small Group Activities. The remaining 40% of course time will be devoted to student writing.
Grading: 10% final exam, 40% reports/papers, 20% reflection paper, 15% in-class presentation, 15% class participation. Students will be allowed to revise for better grades/more points.

Writ 3152W Writing on Issues of Science and Technology
A-F only, 4 credit(s);
Instructor: Berkenkotter, Carol Ann
Description: Students read books and articles, discuss, and write about a 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 3221W Communication Modes and Methods
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Graff, Richard J
Description: Surveys the field of communication theory. Major topic areas include theories of language and non-verbal communication, models of relational communication, and reflections on differences between older and newer media or modes of communication (e.g., speaking vs. writing; conventional print vs. digital text). In addition to introducing the theories, the course seeks to develop competencies in evaluating and applying them in the analysis of communication in various contexts including face-to-face conversations, ongoing interpersonal relationships, and digitally mediated interactions.
Style: 40% Lecture, 50% Discussion, 10% Small Group Activities.
Grading: 75% reports/papers, 15% quizzes, 10% class participation.

Writ 3244W Critical Literacies: How Words Change the World
A-F only, 3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive
Instructor: Bruch Jr, Patrick Leonard
Description: This course examines language as creating rather than simply describing “reality.” We look at reading and writing as arenas of active human struggle over social group power. Students learn about academic theories and real world examples of critical literacies.

Writ 3257 Scientific and Technical Presentations
3 credit(s);
Instructor: STAFF
Description: WRIT 3257 is an advanced oral presentation course designed to further develop your public speaking skills. Specifically, the class focuses on communication theories and techniques for delivering effective, professional-quality presentations on scientific and technical topics. This course is designed to foster the critical and technical skills you will need to be an effective, efficient communicator in your chosen field of study and/or future career. The communication of specialized or technical information of a particular discipline presents special challenges. So, in addition to learning relevant principles of rhetoric, characteristics of different speech genres, and the steps of speech preparation, you will gain
Writ 3291 Independent Study
1-3 credit(s), max credits 6;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Writ 3315 Writing on Issues of Land and the Environment
A-F only, 3 credit(s);Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Reynolds, Thomas Joseph
Description: In this course, students read and write about how U.S. land and the environment have been treated in written texts. The course is based in discussion of major written texts that helped to form ideas about land and the environment in the U.S.. Particular emphasis is placed on Native American peoples and the alternatives provided by their writing and points of view. The rise of the conservation movement and urbanization of U.S. space is another strand. Students should expect to read and discuss the texts assigned. Student writing also plays a major role in the course. Major work in the course includes a digital media/writing project, two papers, and regular Moodle Forum posts.
Style: 15% Lecture, 50% Discussion, 30% Small Group Activities, 5% Student Presentation.
Grading: 15% mid exam, 60% reports/papers, 15% written homework, 5% reflection paper. Percentages above are approximate.

Writ 3316 Literature of Social Movements in the United States: 1950 to Present
A-F only, 3 credit(s);Meets CLE req of Civic Life and Ethics; meets CLE req of Literature
Instructor: Schuster, Mary Lay
Description: This course focuses on six social movements in the last half of the twentieth century in order to demonstrate how literary analysis helps us understand the personal and political reasons why people become involved in social movements and how they express their arguments and ideologies within the public arena. It also focuses on how literary analysis helps us understand how and why authors and film makers have attempted to capture the events and the ideologies of these acts of protest and the responding acts of control. The course satisfies both a LE literature core requirement and a citizenship and public ethics theme requirement. Thus, the course investigates how these arguments and ideologies, these personal and political reasons, are represented in works of fiction (novels, drama, and film) and in memoirs and documentaries. The six social movements examined within the course are as follows: Civil Rights Movement, Women's Movement, Vietnam War Protests, AIDS Activism, Disability Movement, and Environmental Movement. Through class discussion and reading, we will identify the persuasive strategies involved in these movements (the rhetorical stances that people for and against the movement might take), the motivations for involvement and commitment on one side or the other, the public expression of these ideals and commitments, and the degree and kind of action taken. We then identify the literary expression of the ideals of each movement as interpreted by a novelist, playwright, documentary filmmaker, and/or popular filmmaker. One of the central questions of the course is why and how people tell stories about important social events—what choices they make in terms of plot, point of view, character, theme, and setting, and why they seem to make these choices to achieve the desired effects on the reader or viewer. The course also invites a critique of the success of these literary or visual efforts given the knowledge we have about the events depicted and the ideologies that drove the events or the historical and contemporary contexts. The other central question of the course is to assess how social movements function rhetorically to persuade and influence public debate and democratic political decision-making. Thus, course discussion and the take-home exams allow students to reflect upon the features of responsible citizenship.
Style: 100% Discussion.
Grading: 35% mid exam, 40% final exam, 15% quizzes, 10% in-class presentation.
Exam Format: The exams are take-home exams with two weeks given to complete them.

Writ 3371W Technology, Self, and Society
A-F only, 3 credit(s);Meets CLE req of Writing Intensive
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: 20% Lecture, 80% Discussion.
Writ 3405W Humanistic Healthcare and Communication
3 credit(s); Meets CLE req of Arts/Humanities; meets CLE req of Writing Intensive
Instructor: West, William George
Description: This course is designed for students preparing for careers in health care; it explores the interrelationships between Humanism, Communication and Empathy. A focus is on how humanism models the art of medicine and when in history, humanism recedes. Many believe that we are about to lose humanistic medicine as technology eclipses practitioner-patient relationships. This course offers interdisciplinary perspectives by having experts from a variety of disciplines approach communication and value-centered health care from their areas of expertise. Students will analyze and evaluate passages from social sciences and humanities. The course material matches the change in focus of MCAT 2015, the Medical College Admission Test.

Writ 3441 Editing, Critique, and Style
A-F only, 3 credit(s);
Instructor: Horvath, Barbara Ann
Description: In this course, students will increase their understanding of how language works and will learn to make choices about language, style, and punctuation to create messages that are clear, concise, and useful. The course emphasizes scientific and technical communication, but the skills learned can be applied to any communication situation. The emphasis in the course will be on creating documents that work for the people who will use them. Students will not only polish their grammar and punctuation skills, but they will also learn how to explain and justify changes they make in documents to the writers of those documents. Moreover, students will work with already created documents that need those editing skills to make the documents comprehensible and useful. Students will learn how to edit paper copy as well as electronic copy.
Style: 25% Lecture, 25% Discussion, 25% Demonstration, 25% Web Based.
Grading: 9% mid exam, 10% final exam, 28% special projects, 33% written homework, 20% class participation.

Writ 3511 Communication Methods
A-F only, 3 credit(s);
Instructor: Bruenger, Aaron Michael
Description: Student may contact the instructor or department for information.

Writ 3562W Technical and Professional Writing
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Upper division writing intensive course that includes written/oral communication in professional settings, gathering research, analyzing audience, assessing and practicing multiple genres. Students will draft, test, revise, and present findings in an oral presentation.
Grading: 20% reports/papers, 10% quizzes, 45% written homework, 5% in-class presentation, 10% class participation, 10% other evaluation.

Writ 3577W Rhetoric, Technology, and the Internet
A-F only, 3 credit(s); Meets CLE req of Technology and Society; meets CLE req of Writing Intensive
Instructor: Logie, John
Description: Rhetoric, Technology, and the Internet is directed at better understanding how persuasive communication functions (and, sometimes, doesn't) in 21st Century networked digital spaces. The course briefly outlines the history of the Internet, including its founding cultures. The course also engages with the Internet as a specific technology (meaning we look briefly at the wiring) before turning to how to adapt rhetorical theory to 21st century digital spaces. We consider ethical issues, including free speech, copyright, fair use, privacy; and the rhetorics of social networks. Given the nature of the topic, some later class meetings will be left open to address especially current internet phenomena (cyber-bullying incidents, especially significant memes, or a striking hashtag).
Style: 20% Lecture, 60% Discussion, 10% Small Group Activities, 10% Student Presentation.

Writ 3671 Visual Rhetoric and Document Design
A-F only, 3 credit(s);
Instructor: Logie, John
Description: This class investigates current understandings of how visuals participate in and extend the rhetorical strategies long associated with speech and writing. Visual Rhetoric is an emerging discipline, with a developing canon of critical texts. In this class, we pair the study of visual rhetoric theories with the practical work of designing and executing documents common to professional and technical communication. Our readings will survey the work of rhetoricians, graphic designers, graphic novelists, commercial artists, fine artists, and technical communicators. I will endeavor to ensure that no one approach is presented as definitive. Rather, our goal should be to identify shared principles that seem constant or at least consistent whenever people pursue persuasion through visual information. In all these efforts, we will endeavor to move away from the subjective statements of preference that are the hallmark of art criticism, and toward
grounded statements about how successfully visual rhetoricians are meeting the needs of their chosen audiences. This class will both depend upon and reward active class participation. We will be pursuing complex questions (often with similarly complex answers) and the success of the course may well hinge on our collective commitment to both the readings and our in-class discussions. Please arrive prepared to discuss our assigned reading, to be called upon, and to share your insights with your classmates.

**Writ 3701W Rhetorical Theory for Writing Studies**  
*A-F only, 4 credit(s)*; Meets CLE req of Writing Intensive  
**Instructor:** Haas, Christina  
**Description:** This course is designed to provide you with: 1) An introduction to major figures, important concepts, and key theoretical strands in this history of Western Rhetoric. 2) An understanding to the relevance of Rhetoric for writing, for contemporary culture, and for citizenship. 3) Opportunities to examine and critique contemporary rhetorical strategies in academia, contemporary culture, and ?everyday?life. 4) Sustained practice in ?doing? rhetoric in a variety of media and contexts.  
**Style:** 20% Lecture, 30% Discussion, 20% Small Group Activities. The remaining 30% of class time will be devoted to student writing.  
**Grading:** 30% reports/papers, 30% reflection paper, 20% in-class presentation, 20% class participation. Students will have opportunity to revise work for higher grades.

**Writ 4196 Internship in Scientific and Technical Communication**  
*A-F only, 3 credit(s)*;  
**Instructor:** Horvath, Barbara Ann  
**Description:** Internships sites may include the University, industry, or government agencies. Internship proposal, progress report, internship journal (optional), final report with letter from internship supervisor.

**Writ 4431W Science, Technology, and the Law**  
*A-F only, 3 credit(s)*; Meets CLE req of Civic Life and Ethics; meets CLE req of Writing Intensive  
**Instructor:** Schuster, Mary Lay  
**Description:** This course introduces students to the areas of the law that are relevant to science and technology as well as communication. These areas of the law include intellectual property, privacy, and health law. Such diverse topics as electronic surveillance, fair use in copyright, informed consent, file sharing, trademarks, forensic evidence in the courtroom, and patents will be covered. We discuss such acts and laws as The Wiretap Act, The Stored Communication Act, The Patriot Act and Electronic Surveillance Law and how the Fifth and Fourth Amendments affect such laws and acts. We start with a discussion of privacy as ?the right to be left alone? and what actions by business, government, and private individuals constitute invasion of privacy as well as what limits are placed on the right of privacy. We then balance the government?s need to support and encourage the development of technologies through patents, the expressions of ideas through copyright, and the use of those technologies through trademarks with the desire of the individual creator to profit from his or her invention. The final section of the course focuses on health law--how medical science and the law have affected each other. We begin with a look at medical examiners, forensic pathologists, and psychiatrists as they first entered the courtroom as experts. We look then at medical-product liability, medical evidence in the courtroom, and such concepts as at the right to refuse treatment, informed consent and malpractice suits, and ?property? rights as they pertain to body parts and tissue samples. Students will read opinions and decisions in landmark and current cases to see what values, precedents, and issues arise. Reading quizzes and take-home exams as well as class discussion constitute graded work in the course. The course is designed to address the needs of students who seek employment in industry and government where knowledge of legal issues is important, students who wish to go on to law school, and students who have a general interest in science, technology, or the law. No prior knowledge of the law is necessary. All majors are welcome!  
**Style:** 100% Discussion.  
**Grading:** 25% mid exam, 25% final exam, 15% quizzes, 25% additional semester exams, 10% class participation. Three take-home essay exams are given. Students have two weeks to complete them.  
**Exam Format:** Take-home exams--two weeks to complete.

**Writ 4501 Usability and Human Factors in Technical Communication**  
*A-F only, 3 credit(s)*;  
**Instructor:** Breuch, Lee-Ann Kastman  
**Description:** Usability is concerned with how people interact with design and technology; usability is commonly known as the "ease of use" of products and technologies by a range of users. This course emphasizes usability and user research and will explore the intersection of usability and technical communication. We will investigate definitions of usability and user-centered design principles, and we will explore a variety of usability research methods including use cases, heuristic evaluation, and usability testing. The course will focus heavily on usability testing of web sites, a common technical communication task that involves observation and interviews of human subjects interacting with a web site. Individual assignments include a design analysis, heuristic evaluation, and final exam. Collaborative assignments include a use case, test plan, and test report and corresponding documents to supplement a 10-week team project involving a usability test of a
client web site in the University of Minnesota Usability Lab. To fulfill graduate credit, graduate students taking this course will research a usability-related topic. Because this is an advanced level course, students should already have knowledge of basic technical writing skills such as editing, information design, and collaborative teamwork skills.

**Style:** 20% Lecture, 30% Discussion, 10% Laboratory, 30% Small Group Activities, 10% Student Presentation.

**Grading:** 20% final exam, 70% reports/papers, 10% class participation. Individual work consists of 60% of total course grade. Collaborative work consists of 40% of total course grade.

**Exam Format:** Take-home essay

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**Writ 4573W Writing Proposals and Grant Management**

A-F only, 3 credit(s); Meets CLE req of Writing Intensive

**Instructor:** Thomas-Pollei, Kimberly A

**Description:** This course will teach a systematic method for grant seeking and proposal writing. Each student will learn how to research funding sources, how to write a letter of intent or pre-proposal, how to write a proposal that follows a sponsor's guidelines, how to compile a complete proposal package, and how to submit a proposal package to a sponsor. The course will stress the logic of the proposal, the kinds of appeals and arguments you can make, how to build your credibility with sponsors, how to identify and incorporate your competitive advantages, and how to determine what different readers are looking for in your proposal.

**Style:** 35% Lecture, 25% Discussion, 10% Small Group Activities, 10% Student Presentation, 5% Guest Speakers, 5% Web Based, 10% Service Learning.

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**Writ 4664W Science Writing for Popular Audiences**

A-F only, 3 credit(s); Meets CLE req of Writing Intensive

**Instructor:** Berkenkotter, Carol Ann

**Description:** Do you have a background in Journalism, English, or Science and like to write? Have you ever wondered about careers in writing about scientific topics for popular journals such as Natural History, Scientific American, or Audubon? The field of science news/ science communication is growing by leaps and bounds, and WRIT 4664W is your introduction to the techniques and tips for entering this fascinating field. The course is designed to help you learn a variety of techniques that good science and medical journalists use. I will help you learn these techniques in two ways. First, we will examine how science writers translate complex technical concepts into everyday language for popular audiences. Secondly, we will read and discuss newspaper and magazine articles written by the best-known authors in science and health communication. We will also look at article formats in the popular science press, such as Natural History, Scientific American, and Audubon, and the NY Times Science Times. By the end of the semester you will have learned various writing strategies, news formats, and rhetorical techniques for good science writing through examining the articles of the best known professional science and medical journalists.

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**Writ 4995 Senior Project**

A-F only, 1 credit(s);

**Instructor:** STAFF

**Description:** The senior project is a 1-credit requirement to be taken during a student's senior year. The project addresses a topic in writing studies related to a WRIT course that the student is taking or has taken. Students generally work with a Writing Studies instructor to complete the project. The nature of the senior project is flexible. It can be a research paper on a proposed topic related to coursework, or it can be a project that involves empirical research and creation of a document (such as a usability report, a technical report, a design, a website, etc.). Students should discuss the nature of the project with the instructor. Students must obtain signature of instructor agreeing to oversee the student's Senior Project. The senior project will be 1 credit and students must register for it. Students can register any time in the first seven weeks of a given semester. Students must complete a form describing their senior project, naming the faculty member, and get agreement from that faculty member.

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**Writ 5051 Graduate Research Writing Practice for Non-native Speakers of English**

3 credit(s);

**Instructor:** Holt, Sheryl Lynn

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

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**Writ 5051 Graduate Research Writing Practice for Non-native Speakers of English**

3 credit(s);

**Instructor:** Strain, Kimberley Ann

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

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**Writ 5052 Graduate Research Presentations and Conference Writing for Non-Native Speakers of English**

3 credit(s);

**Instructor:** Holt, Sheryl Lynn

**Description:** Writ 5052 helps you learn and practice strategies and specific skills for effective delivery of professional,
Writ 8505 Professional Practice

Writ 5775 The Rhetorical Tradition: Classical Period

Writ 5291 Independent Study, Reading, and Research

Writ 5270 Special Topics: Writing for Publication

Writ 5196 Internship in Scientific and Technical Communication

Writ 5291 Independent Study, Reading, and Research

Writ 5270 Special Topics: Writing for Publication

Writ 5196 Internship in Scientific and Technical Communication

Writ 5775 The Rhetorical Tradition: Classical Period

Writ 8505 Professional Practice
Instructor: Duin, Ann Hill

Description: This course is designed to provide a class structure to assist students in completing writing requirements and oral presentations associated with professional projects -- research, scientific writing, and associated reports -- as part of their graduate programs. Course Objectives: To foster advanced skills in writing and editing scientific and/or technical documents for various audiences. To design and develop research reports and related documents for graduate programs in scientific and technical communication and other technical disciplines. To understand various theoretical perspectives in scientific and technical communication, as well as the ability to apply these perspectives to document development projects. To enhance skills in oral presentation of scientific and/or technical research information for peers. Each student will work with the professor and other class members to choose an individual project to complete during the term. In many cases, the work will serve to assist the student in completing capstone projects, thesis and other writing requirements as part of their graduate programs. We will use a "writers' workshop" format during class sessions, in which students will discuss their projects and receive comment and direction from class members and the professor. Students will submit regular progress reports both verbally and in writing. Students will also publish their work at the University's Digital Conservancy.

Writ 8540 Seminar in Technical Communication and Composition Pedagogies: Multimodal Writing Instruction: Theory and Practic
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Reynolds, Thomas Joseph
Description: For the last century, writing instruction has assumed an isolation of print from other media unless the instruction involved technical writing issues. This seminar explores the concept of multimodality as a current trend in writing studies pedagogy. What has been the history of multimodality in writing instruction? How has the concept evolved since instruction has assumed the use of computers as tools? How has the practice of writing led, in significant ways, to a reconsideration of writing as taking place in multimodal networks or fields, and how shall we, as instructors of writing, respond? How does the new engagement with multimodality offer possibilities for critique in writing instruction? This seminar will explore these kinds of questions.
Style: 10% Lecture, 80% Discussion, 10% Student Presentation.
Grading: 40% reports/papers, 10% written homework, 10% in-class presentation, 40% class participation.

Writ 8550 Seminar in Technology, Culture, and Communication: Critical Perspectives on Virtual Networked Environ
A-F only, 3 credit(s), max credits 12, 4 completions allowed;
Instructor: Duin, Ann Hill
Description: An explosion of innovation is changing the learning ecosystem, and higher education is undergoing transformative change at individual, organizational, and societal levels. The next decade will bring extensive change to higher education as teaching and learning are uncoupled from institutions and programs, resulting in challenges to traditional assumptions, models, and relationships. This seminar will explore these changes and the resulting learning and research environments in various fields including writing studies and professional/technical communication. Students will have the opportunity to do the following: investigate disruptions (including academic and learning analytics) that are reshaping the learning ecosystem; draw on constructivist grounded theory, connectivism, and actor network theory to understand emerging learning and research environments; and design and study a connected learning and/or research experience relevant to the student's scholarship and current workplace.

Writ 8792 Independent Study, Reading, and Research
S-N only, 1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Haas, Christina
Description: Student may contact the instructor or department for information.
YoSt 3001 Introduction to History & Philosophy of Youthwork
4 credit(s);
Instructor: STAFF
Description: Youthwork is constituted by families of philosophy, clusters of ideas and actions, understandings and ways of working. To some observers, the field may seem to be a clear center with fuzzy boundaries, while others could perceive the clusters and multiple centers, or even like a black hole, clusters without a center, even without boundaries. A more formal reading would show an emergent semi-profession, clusters with family resemblances, no two exactly alike. One reading of this is chaos, not a field because no center, periphery or order. Another view is developmental and contextual, arguing that all of these differences reflect the multiple combinations of related disciplines, professions, settings and young people and that this is an appropriate mix at this stage of development. Some argue that the field is about applied adolescent development, others that it is a craft orientation, others that there are identifiable praxes across the clusters and that there is much in common among these clusters. Some approach the study of the history and philosophy looking for, and then at, each cluster, seeking the ground of each, i.e. where it stands, where it puts its feet. Others dismay at such metaphoric analysis and at the search for roots, standpoints and touchstones, arguing that the cluster of philosophy / method / setting / youth is inextricable and these come together in time/place. This makes (no) sense to some who argue that a philosophy and science of youth must be antecedent to a practice philosophy to serve/guide/enhance/change youth; others take the opposite view. In some countries this is all worked-out and clear; in the United States it is not?WELCOME to the History & Philosophy of Youthwork! In everyday practice, none of this (may) matter(s) very much, except when concerning ethics (e.g. taking a kid home; sleeping with a client) and licensure and certification, thus pay scales and one’s pay. And when legal and professional responsibility are named, allocated and monitored. It may be reasonable to argue that youthwork in the US is not one field but many. A classification system in which one or the other type is one member class, i.e. that there is no family resemblance among these, only a phenotypic surface similarity, without common forbearers. Or alternately, that all these are slight, relatively unimportant variations of the true single stock, the true youthwork model; that there is a youthwork which is found at a particular place/time and that it in effect birthed the many models and clusters. All of this may be relatively unimportant, even irrelevant, to every day practice and to those who work with youth, whatever they call themselves? youthworker, child and youth care worker, social pedagogue, teacher, coach, civic worker, youth advocate, social worker, or the like. But this is our concern and our subject?the history and philosophy, but of what? Youthwork!

YoSt 3032 Adolescent and Youth Development for Youthworkers
4 credit(s); 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 3101 Youthwork: Orientations and Approaches
4 credit(s);
Instructor: Billiet, Eric
Description: Student may contact the instructor or department for information.

YoSt 3240 Special Topics in Youth Studies
2-8 credit(s), max credits 10, 5 completions allowed; [Two social sci courses, exp working with youth] or instr consent Credit will not be granted if credit has been received for: YOST 5240;
Instructor: STAFF
Description: This course is designed to give UMN students the opportunity to learn about Hmong history, family, community development, and youth development. The main purpose of this course is to focus on the everyday lives of Hmong youth and the challenges and/or obstacles they face growing up in their community. UMN Hmong professors and community leaders will be invited as guest lecture during the semester. By the end of the semester, students will know about Hmong history, community, family and everyday youth lives, and culture and traditions of being a young Hmong.

YoSt 3291 Independent Study in Youth Studies
1-9 credit(s), max credits 18;
Instructor: Stein, Jerome A
YoSt 3291 Independent Study in Youth Studies
1-9 credit(s), max credits 18;
Instructor: VeLure Roholt, Ross Ronald
Description: Student may contact the instructor or department for information.

YoSt 3291 Independent Study in Youth Studies
1-9 credit(s), max credits 18;
Instructor: Billiet, Eric
Description: Student may contact the instructor or department for information.

YoSt 3291 Independent Study in Youth Studies
1-9 credit(s), max credits 18;
Instructor: Johnston-Goodstar, Katie
Description: Student may contact the instructor or department for information.

YoSt 3291 Independent Study in Youth Studies
1-9 credit(s), max credits 18;
Instructor: Baizerman, Michael Leon
Description: Student may contact the instructor or department for information.

YoSt 3291 Independent Study in Youth Studies
1-9 credit(s), max credits 18;
Instructor: Sethi, Jenna Kristen
Description: Student may contact the instructor or department for information.

YoSt 4196 Youthwork Internship
4 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

YoSt 4314 Theater Activities in Youthwork and Education
2 credit(s); 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); 1001 or 2101 or instr consent Credit will not be granted if credit has been received for: YOST 5316;
Instructor: Daggett, Joanna Leine Krebs
Description: Student may contact the instructor or department for information.

YoSt 4401W Young People’s Spirituality and Youthwork: An Introduction
4 credit(s); 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: STAFF
Description: The purpose of this course is to explore at a beginning level the topic of spirituality and young people and its importance to youthwork practice. Typically, the spiritual experiences of young people have been the province of religious instruction or faith-based youthwork. Faith and spirituality have been increasingly accepted as actual and necessary aspects of healthy youth development. Youth workers need not be employed by or volunteers in a faith based group or organization to bring increased awareness of spirituality to their youthwork. The range and extent of current research on adolescent spirituality has grown substantially over the past ten years. The popularity of the conversation across disciplines
in the academy raises critical issues for practitioners. How will new research findings confirm or challenge their experience? How will new research impact everyday practice? This course enters the spaces of social, political, cultural, and religious institutions and practices, illuminating issues, topics, problems, and concerns for those who work with youth directly and or on their behalf. We will consider what youthwork practices are most respectful of, and best able to facilitate spiritual development of young people in their everyday lives. As an undergraduate writing intensive course, all undergraduate students will be expected to write frequently and use a variety of writing styles: autobiographical, journal/book critique, essay, field mapping/observation notes, and a synthesis project. This course is intended to build a foundation for further study about the spirituality of young people and youthwork in diverse settings.

YoSt 4411 Youth Research and Youth Program Evaluation
4 credit(s);
Instructor: Baizerman, Michael Leon
Description: Student may contact the instructor or department for information.

YoSt 5032 Adolescent and Youth Development for Youthworkers
4 credit(s); [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 5291 Independent Study in Youth Studies
1-8 credit(s), max credits 16;
Instructor: Stein, Jerome A
Description: Student may contact the instructor or department for information.

YoSt 5291 Independent Study in Youth Studies
1-8 credit(s), max credits 16;
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 16;
Instructor: Johnston-Goodstar, Katie
Description: Student may contact the instructor or department for information.

YoSt 5291 Independent Study in Youth Studies
1-8 credit(s), max credits 16;
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); 1001 or 2101 Credit will not be granted if credit has been received for: YOST 4314;
Instructor: Mandell, Janice L
Description: Student may contact the instructor or department for information.

YoSt 5316 Media & Youth: Learning, Teaching, and Doing
2 credit(s); 1001 or 2101 or instr consent Credit will not be granted if credit has been received for: YOST 4316;
Instructor: Daggett, Joanna Leine Krebs
Description: Student may contact the instructor or department for information.

YoSt 5401 Young People's Spirituality and Youthwork: an Introduction
A-F only, 4 credit(s); [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: STAFF
Description: Student may contact the instructor or department for information.
YoSt 5954 Experiential Learning: Pedagogy for Community and Classroom
3 credit(s);
Instructor: Ross PhD,Terrance Kwame
Description: Student may contact the instructor or department for information.

YoSt 5958 Community: Context for Youth Development Leadership
A-F only, 3 credit(s);
Instructor: Stein, Jerome A
Description: Issues/policies in family, school, and community 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.

YoSt 5960 Seminar in Youth Development Leadership
S-N only, 1-4 credit(s), max credits 4, 4 completions allowed;
Instructor: Stein, Jerome A
Description: Student may contact the instructor or department for information.

YoSt 5962 Leadership Field Experience: Youth Development
S-N only, 4 credit(s);
Instructor: Stein, Jerome A
Description: Student may contact the instructor or department for information.

This information is subject to change. Access the most current information in the online Course Guide at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.